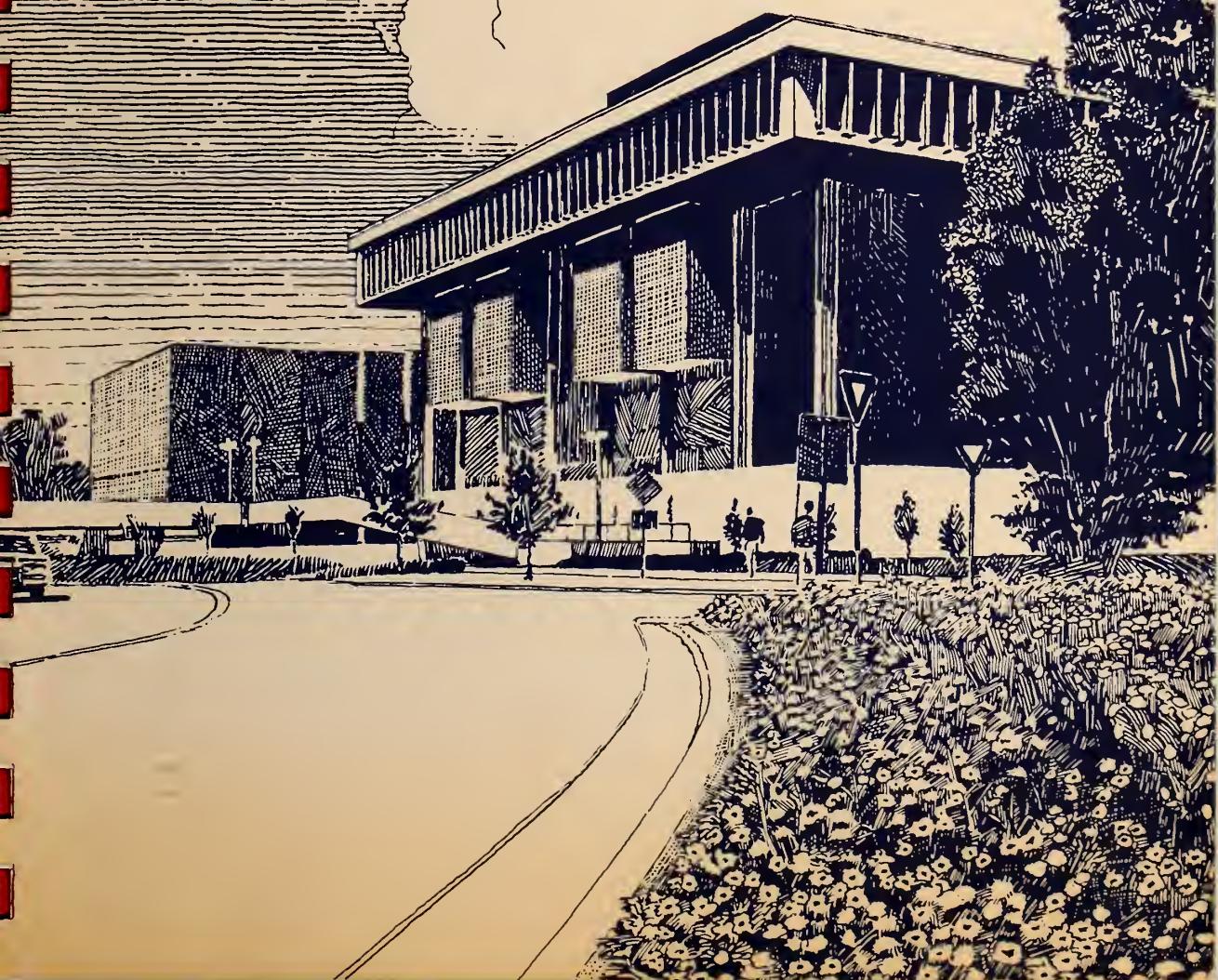


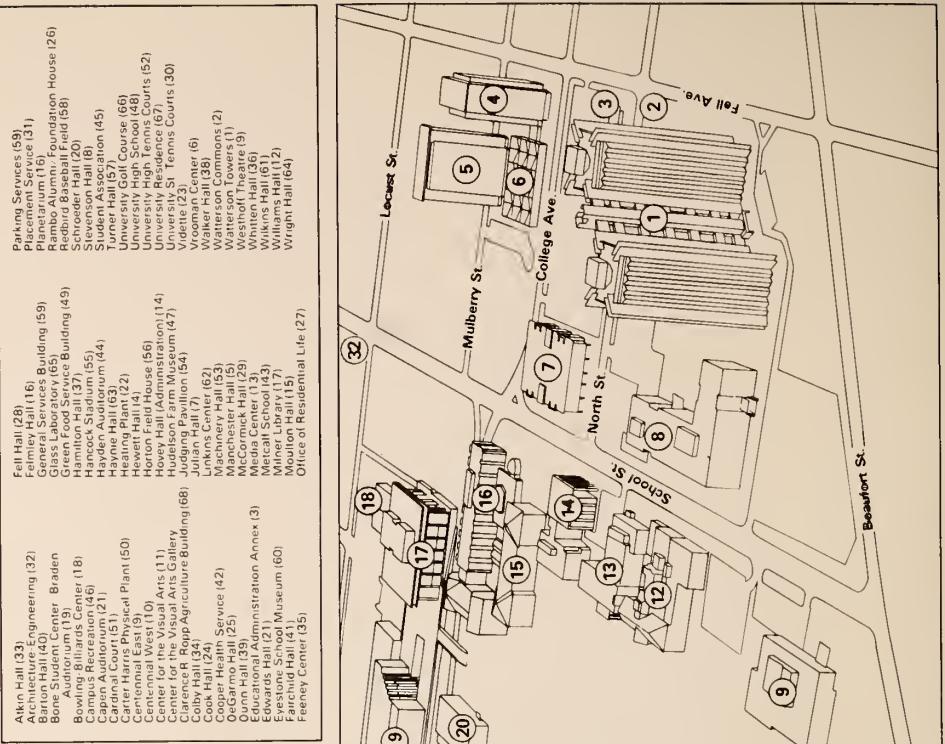
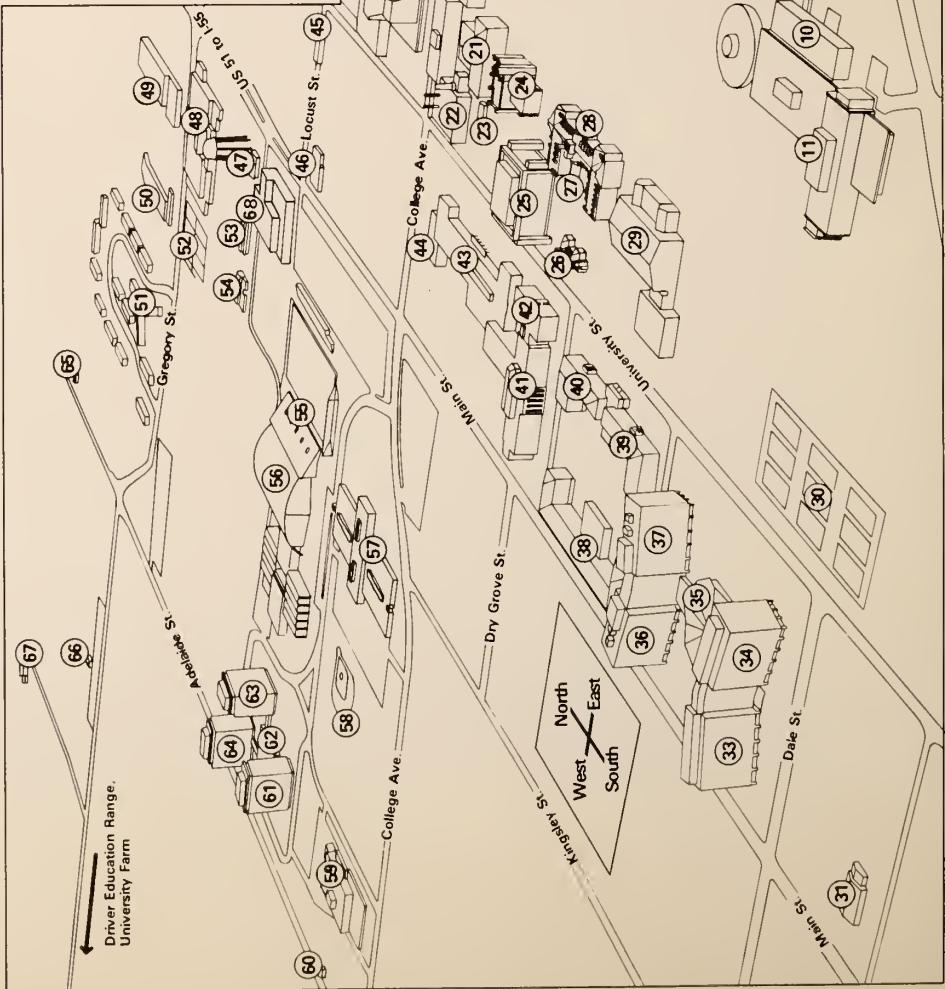
Illinois State University

Undergraduate
Catalog
1983-84

D. URBAN



The University



**Illinois State University
Undergraduate Catalog
1983-1984**

Effective May 9, 1983

Illinois State University is an Equal Opportunity/Affirmative Action institution in accordance with Civil Rights legislation and does not discriminate on the basis of race, religion, national origin, sex, age, handicap, or other factor as prohibited by law in any of its educational programs, activities, admissions, or employment policies. Concerns regarding this policy should be referred to the Affirmative Action Office, Illinois State University, Normal, Illinois 61761, phone 309/438-2111. The Title IX Coordinator and the 504 Coordinator may be reached at the same address.

Using the Catalog

This publication contains information about admissions, costs, financial aid, housing, academic programs and requirements, and student services and activities of Illinois State University. The importance of some of this information will vary from student to student; **however, the sections on admissions, costs, and academic policies apply to all students and should be read carefully.**

All students are urged to review the entire Catalog carefully to obtain an overview of the opportunities and expectations of the University. For specific information about particular concerns, students should consult either the Table of Contents or the Index.

A wide variety of undergraduate programs (majors and minors) in more than 50 separate fields of study are described. Students should consult the appropriate departmental section of the Catalog for a description of the requirements for each of these programs and the academic policies section for the general requirements for graduation. **Students in teacher education programs should pay particular attention to the section devoted to University Wide Teacher Education Program Requirements.**

Undergraduate courses offered by the 32 departments of the University are also described in this Catalog. Students should consult the *Directory of Classes* published each semester for specific information about courses to be offered that semester.

Confidentiality of Student Records

In accordance with the Family Educational Rights and Privacy Act of 1974, Illinois State University students have the right to review, inspect, and challenge the accuracy of information kept in a cumulative file by the institution unless the student waives this right in writing. It also insures that records cannot be released in other than emergency situations without the written consent of the student except in the following situations.

A. to other school officials, including faculty within the educational institution or local educational agency who have legitimate educational interests;

B. to officials of other schools or school systems in which the student intends to enroll, upon condition that the student be notified of the transfer, receives a copy of the record if desired, and has an opportunity for a hearing to challenge the content of the record;

C. to authorized representatives of 1) the Comptroller General of the United States, 2) the Secretary, 3) an administrative head of any educational agency, or 4) State educational authorities;

D. in connection with the student's application for, and receipt of, financial aid;

E. where the information is classified as directory information. The following categories

of information have been designated by the University as directory information: name, address, telephone number, major, class, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, and the most recent previous educational agency or institution attended by the student. If you do not wish such information released without your consent, you should notify the Office of Admissions and Records prior to the first day of classes.

Questions concerning this law and the University's policy concerning release of student information and the procedures for contesting the content of cumulative files may be directed to the Office of Admissions and Records, Hovey Hall 201, 438-2181.

Table of Contents

University Calendar, 1983-84	4	Alumni Services and Development	33
Introduction.....	7	Professional Practice	33
Board of Regents	7	Preparation for Graduate and	
University Administrative Officers	7	Professional Study	34
Admissions	9	University Studies Program	37
Admissions Applications	9	University-Wide Programs and Courses	41
Student Classifications	9	Fields of Study and Degrees	41
General Admission Requirements	9	Program and Course Explanations	41
Specific Admission Requirements	9	Contract Major and Minor	43
Special Admission	10	Ethnic and Cultural Studies	43
Orientation and Registration	10	University-Wide Courses	44
Costs and Residence	13	Interdisciplinary Studies	45
Tuition and Fees	13	College of Applied Science and Technology	47
Campus Living Accommodations and		Department of Agriculture	47
Policies	14	Department of Applied Computer Science	51
Financial Aid	15	Department of Criminal Justice Sciences	54
Federal Grants and Benefits	16	Department of Health, Physical Education,	
State Scholarships and Grants	17	Recreation and Dance	55
University Scholarships	17	Department of Health Sciences	65
Private Scholarships	17	Department of Home Economics	70
Loan Programs	17	Department of Industrial Technology	74
Student Employment	18	Military Science Program	80
Student Services	18	College of Arts and Sciences	83
Student Affairs Office	18	Department of Biological Sciences	84
Career Counseling	18	Department of Chemistry	87
Counseling Center	19	Department of Communication	89
Financial Aid	19	Department of Economics	95
Student Health Center	19	Department of English	97
Placement Service	19	Department of Foreign Languages	101
Residential Life	19	Department of Geography-Geology	107
Student Judicial Office	19	Department of History	110
Student Life and Programs	19	Department of Mathematics	113
Bone Student Center/Braden Auditorium	20	Department of Philosophy	118
Veterans Services	20	Department of Physics	119
Student Clubs and Organizations	20	Department of Political Science	121
Academic Policies and Requirements	23	Department of Psychology	124
University Grading System	23	Department of Sociology, Anthropology	
Course Registration and Withdrawal	24	and Social Work	126
Academic Requirements	25	Department of Speech Pathology and	
Academic Honors	26	Audiology	129
Undergraduate Degree Requirements	26	College of Business	133
Graduation Requirements	27	Department of Accounting	134
Catalog Requirements	27	Department of Business Education and	
Senior Evaluation, Application for		Administrative Services	136
Graduation and Commencement	27	Department of Finance and Law	138
Second Bachelor's Degree	28	Department of Management and Marketing	140
Special Academic Programs and Services	28	College of Education	145
Proficiency and Placement Examinations	28	Department of Curriculum and Instruction	145
Academic Advisement Center	30	Department of Educational Administration	
Honors Program	30	and Foundations	150
High Potential Students' Program	30	Department of Specialized Educational	
International Studies	31	Development	150
National Student Exchange	31	University-Wide Teacher Education	
Undergraduate Teaching Assistants	32	Program Requirements	153
Speech and Hearing Clinic	32	College of Fine Arts	161
Mathematics Assistance Center	32	Department of Art	161
Reading Study Skills Center	32	Department of Music	165
Writing Center	32	Department of Theatre	170
Media Services	32	Faculty and Administrative Staff	175
Research Services and Grants	32	Faculty Emeriti	194
Services for the Handicapped	33	Index	198

University Calendar, 1983-84

1983 Summer Sessions

May 9-June 10	Pre session.
May 30	Memorial Day holiday.
June 13	Opening of and registration for eight-week summer session.
June 15	Last day for late registration for summer session (8 week courses).
June 16	Last day for course changes for summer session.
June 30	Last day to withdraw from a course with a mandatory WX grade.
June 30	Last day for undergraduate students to apply for graduation at end of eight-week summer session.
July 4	Independence Day holiday.
July 21	Last day to withdraw from courses, or from the University, or to drop credit/no credit option
August 3-4	Evaluation and review period.
August 5	Eight-week summer session ends.

1983 First Semester

August 18	Program changes for students who have paid their fees. (See <i>Directory of Classes For Specific Schedule</i>)
August 18	Registration for late afternoon, evening, and Saturday classes. See <i>Directory of Classes</i> booklet for specific registration schedule.
August 19-20	Registration. (See <i>Directory of Classes</i> booklet for specific registration schedule).
August 20	Last day to withdraw from classes with a full refund of tuition and fees.
August 22	Classes begin.
August 24	Last day for late registration.
August 26	Last day for Program Change.
September 5	Labor Day holiday.
September 6	Last day to withdraw from classes with a full refund minus service fee.
September 9	Last day for undergraduate students to apply and pay fee for graduation in December.
September 20	Last day to withdraw from classes with a partial refund (See <i>Directory of Classes</i> .)
September 30	Last day to withdraw with a mandatory WX grade from a full semester class.
October 1	Parent's Day
October 14	Fall Vacation
October 15	First half semester ends.
October 17	Second half semester begins. Classes resume at 8 a.m.
October 29	Homecoming.
November 18	Last day to withdraw from a class or from the University, and to remove the Credit/No Credit option.
November 23	Thanksgiving vacation begins at 5:30 p.m.
November 28	Classes resume, 8 a.m.
December 10	Reading Day.
December 12-17	Evaluation and review period.

1984 Second Semester

January 5	Registration for late afternoon, evening, and Saturday classes. See <i>Directory of Classes</i> for specific registration schedule.
January 5	Program changes for students who have paid their fees.
January 6-7	Registration. See <i>Directory of Classes</i> for specific registration schedule.
January 7	Last day to withdraw from classes with a full refund of tuition and fees.
January 9	Classes begin.
January 11	Last day for late registration and course changes.
January 13	Last day for Program Change.
January 23	Last day to withdraw from classes with a full refund minus service fee.
February 3	Last day for undergraduate students to apply and pay fee for graduation in May.

February 7	Last day to withdraw from classes with a partial refund (See <i>Directory of Classes</i> .)
February 17	Last day to withdraw with a mandatory WX grade from a full semester class.
March 3	First half semester ends. Spring vacation begins at noon.
March 12	Classes resume, 8 a.m.
April 13	Last day to withdraw from a class or from the University, and to remove the Credit/No Credit option.
April 28	Reading Day.
April 30 - May 4	Evaluation and review period.
May 5	One hundred twenty-fifth Annual Commencement.

1984 Summer Session

May 7	Pre session begins.
May 28	Memorial Day holiday.
June 11	Opening of and registration for eight-week summer session.
July 4	Independence Day holiday.
August 1-2	Evaluation and review period.
August 3	Summer session ends.

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INTRODUCTION

Board of Regents

The Board of Regents is the governing board for Illinois State University, Northern Illinois University, and Sangamon State University. Members of the Board are:

David E. Murray, Sterling, *Chairperson* (1981-1987)
 Carol K. Burns, Peoria, *Vice Chairperson* (1977-1983)
 Jerome R. Bender, Rockford (1979-1985)
 Clara S. Fitzpatrick, Evanston (1979-1985)
 L. Milton McClure, Beardstown (1982-1987)
 D. Brewster Parker, Lincoln (1981-1983)
 Hal Riss, Shirley (1981-1987)
 Harry L. Wellbank, Crystal Lake (1977-1983)
 James L. Wright, Chicago (1979-1985)

One student, non-voting member from each university in the Regency System.

Executive Director: Franklin G. Matsler, Springfield

University Administrative Officers

Lloyd I. Watkins, *President*

Leon E. Boothe, *Vice President and Provost*

Eugene H. Jabker, *Associate Provost
and Dean of Instruction*

Charles A. White, *Dean of the Graduate School*

Anita H. Webb-Lupo, *Acting Dean, College of Applied
Science*

and Technology

Virginia L. Owen, *Dean, College of Arts
and Sciences*

Andrew T. Nappi, *Dean, College of Business*

William S. Dunifon, *Dean, College of Education*

Charles W. Bolen, *Dean, College of Fine Arts*

Edward T. Anderson, *Dean, College of Continuing
Education and Public Service*

David A. Strand, *Vice President for Business and Finance*

Neal R. Gamsky, *Vice President and Dean of
Student Affairs*

Charles E. Morris, *Vice President for
Administrative Services*

Richard T. Godfrey, *Director of Public Affairs*

Illinois State University is the first public institution of higher education established in the State of Illinois. It is a multiple purpose university with more than 20,000 students, located in the medium-sized urban area of Normal-Bloomington. With an emphasis on the excellence of instruction, the University's primary mission is to provide the best undergraduate academic programs available in public institutions of higher education in Illinois. The University's curriculum is complemented by strong graduate programs, faculty research, and community service activities.

The University seeks to provide an atmosphere in which an excellent faculty interacts with capable students in and outside the classroom to produce educated citizens as graduates. In addition, the University recognizes that knowledge occurs not only in classrooms, laboratories, and libraries, but also in living units and in a rich profusion of social, recreational, and artistic activities that are provided for the students, faculty and staff, and community.

Campus: The tree-shaded campus of Illinois State University, covering 850 acres in Normal, is a study of varying architecture, ranging from the castle-like appearance of

Cook Hall to the modernistic dominance of the 28-story twin Watterson Towers residence halls. Major classroom buildings are centrally located and are surrounded by the library and recreational, social, and residence structures. Most programs are accessible to the handicapped with class scheduling consideration being given for the necessary traveling time between buildings.

The library building, completed in 1976, provides over two million individual items and study space for 3,000 students. Each of the six floors of the library is arranged to provide a variety of study areas—individual carrels, small tables, conference rooms, and lounge chairs—all located adjacent to books, periodicals, and other library materials.

The collections of the University Library include 850,000 catalogued books and 286,000 U.S. Government publications, a total of 1,136,000 volumes. Several thousand additional publications are available in miniature in 44,500 reels of microfilm and 925,000 microcards and sheets of microprint. The Map Collection contains 303,000 cartographic items. A record collection of 17,450 recordings is available. In addition, the library's membership in the Center for Research Libraries makes the resources of that 3,000,000-volume collection available to the faculty and students. The library also provides access to other libraries throughout the country and in Illinois through OCLC, the Illinois Library Network, and the Illinois LCS organization.

Other University facilities include an 18-hole University golf course, a 350-acre University farm, recreational fields, and other open areas for student and public relaxation. For use by the University and the surrounding Central Illinois community, Illinois State also has a 3,500-seat auditorium, a student center, and a recreation facility for bowling and other activities. Athletics are centered in the 8,500-seat Horton Field House and in Hancock Stadium, which has an all-weather playing surface.

Residence structures include high-rise buildings of 28, 18, 12 and 10-story heights, as well as more traditional halls of only a few stories. There are also apartments at Cardinal Court and Shelbourne Drive.

Collegiate Organization: Academic programs and courses are offered in 32 academic departments which are organized into the Colleges of Applied Science and Technology, Arts and Sciences, Business, Education, and Fine Arts. Undergraduate academic program and course offerings are listed in the Catalog according to the collegiate and departmental organization. University-wide program and course offerings are described separately.

The Graduate School offers master's degree programs in most fields in which undergraduate programs are available and doctoral degree programs in Art, Biological Sciences, Curriculum and Instruction, Economics, Educational Administration, English, History, Mathematics, and Special Education. Further information concerning graduate study at Illinois State University is available in the *Graduate Catalog* and at the Graduate School office in Hovey Hall.

The College of Continuing Education and Public Service offers off-campus courses, workshops, and conferences designed for adults who wish to improve themselves professionally. Information about such offerings is available in bulletins published by the College each semester. The University makes no distinction between credit earned on or off campus and does not offer correspondence courses.

Academic Senate and Committees: The Academic Senate is the major governance body of the University. The Senate acts in legislative and advisory roles with regard to University policies concerning faculty and students, academic programs and planning, and University concerns. Based upon the concept of shared governance, the 50-member Senate's elected representatives consist of 27 faculty members and 19 students, plus 3 Vice Presidents and the President of the University.

Through the Academic Senate and its external committee system, students, faculty, and administrators share in the study and development of policy. Students are encouraged to share in the experience which participation in committees such as the following can offer:

Academic Planning, Academic Standards, Elections, Entertainment, Library, Facilities Planning, Reinstatement, University Curriculum, University Forum, Committees; Council on Teacher Education, Honors Council, Council on University Studies, University Union/Auditorium Board, Student Code Enforcement and Review Board, Athletic Council. Students also participate as members of college and de-

partment councils and serve on search and ad hoc committees.

The Academic Senate Office is located in 301 Hovey Hall.

Accreditation: Illinois State University is fully accredited by the Commission on Institutions of the North Central Association of Colleges and Schools and by the National Council for Accreditation of Teacher Education.

Summer Sessions: The University provides credit course work during the summer. Courses are also offered off campus. Regular courses, taught by the regular instructors, are offered during the summer so that students may take the same type of work as that offered during the first and second semesters. Limited student teaching and internship positions are available during the summer session for those who are qualified. Prospective students may obtain the annual *Summer Class Schedule* by writing to the Office of Admissions and Records. This schedule lists courses, costs, and other information for the session. Summer session students should refer to the undergraduate and graduate catalogs for academic policies.

ADMISSIONS

Admissions Applications

Prospective students may obtain applications for admissions by writing to the Office of Admissions and Records, Illinois State University, Normal, Illinois 61761. In Illinois, a prospective student may call toll free 800/322-2314 to request an application. On campus, applications are available in 201 Hovey Hall. Admission to the University does not guarantee housing in residence halls. Separate application for housing should be sent to the Office of Residential Life after the notice of admission is received.

All applicants who are not United States' citizens should request a **foreign student application**. Prospective graduate students should request a **graduate application**. Applicants 25 years of age or older who are interested in the Adult Learner Program offered by the College of Continuing Education should request an **adult learner application**.

An applicant may request admission for the fall semester, which begins in late August; for the spring semester, which begins in early January; for pre-session, which begins in mid-May; or for the summer session, which begins in the middle of June. Applications are usually processed within two weeks of receipt.

The University reserves the right to limit enrollment in a program because of space or budget restrictions. Applicants are, therefore, encouraged to submit admission applications early. Applicants qualified for admission will be admitted to the University as general students even though space in the desired program may not be available at the time of admission.

Prospective students who are still in high school are encouraged to apply after completion of the junior year; prospective transfers should apply early in the year before desired enrollment. The Admissions Office will process applications until enrollment capacities are reached, so early application is advantageous. Applications can ordinarily be acted upon as soon as transcripts and standardized test scores are received. However, the University may in some cases defer a final decision pending receipt of a final transcript showing that grades were maintained.

Certain areas--all programs within the College of Business, the Department of Applied Computer Science, some majors in the Department of Health Sciences, and the Department of Specialized Educational Development--have either selective admissions policies or higher admissions standards than are required for entry into the University. These policies are explained in the departmental sections of the catalog.

Student Classifications

The University has three classifications for new undergraduate students:

1. **Beginning freshmen:** a person who has never registered at any college or university.
2. **Transfer:** a person who has registered at another college, whether or not any work was completed.
3. **Unclassified undergraduate:** a person who desires to take classes at the University but does not plan to become a candidate for a degree.

General Admission Requirements

Admission requirements are the same for all semesters or sessions. The specific requirements for the three undergraduate classifications are explained below. Exceptions to these requirements may be made for special admissions categories (p 10). The admissions decision is based on high school class rank, standardized test scores and any previous college work.

Prospective ISU students are expected to have a strong academic background. Reading, writing and mathematics are central to that background. A minimum of three years of English and one year of algebra is required, and prospective students are urged to study as much English, mathematics, science and social studies as possible in the high school program.

While the University offers a wide range of support services to improve students' chances for academic success, it does not offer intensive remedial assistance in mathematics, reading, or composition. Students who believe that they have deficiencies in these basic skills are advised to enroll elsewhere in appropriate preparatory courses before enrolling at Illinois State University.

Information on how to prepare for particular majors is outlined in *A Handbook for High School Counselors*, a copy of which has been sent to every high school in Illinois. Academic departments at ISU are also happy to supply prospective students with additional information about majors. Students or counselors with specific questions should write to the appropriate departmental chairperson.

Standardized Tests: Prospective beginning freshmen and transfer students with fewer than 30 hours must have ACT or SAT scores sent directly to the Office of Admissions and Records. If the scores were not sent to Illinois State University at the time the test was taken, write the American College Testing Program (ACT, Box 168, Iowa City, Iowa 52240) or the Educational Testing Service (SAT, Educational Testing Service, Princeton, New Jersey 08540) and request to have them sent to ISU. Upon request, special testing arrangements will be made for the handicapped by either testing agency.

Specific Admission Requirements

Beginning Freshmen: Admission requires graduation from an accredited high school or a GED certificate. In addition, students must present an ACT English subscore of 18 (SAT verbal 400) and an ACT Math subscore of 19 (SAT Quantitative 430), or a high school transcript showing successful completion of at least three years of high school English and one year of standard high school algebra.

Students who meet **one** of the criteria listed below, that have been determined to provide at least a 50/50 chance for achieving a 2.0 GPA at Illinois State at the end of the first semester of course work, will be admitted to the University until enrollment capacity is reached:

High School Class Percentile	Minimum ACT Composite Score or SAT Combined Score
1. 75th - 99th (top quarter)	no minimum
2. 50th - 74th	ACT 12 or SAT 575
3. 25th - 49th	ACT 18 or SAT 825
4. 1st - 24th (bottom quarter)	ACT 20 or SAT 910

Transfer Students: All transfer students must present an overall "C" average (2.0 on a 4.0 scale or the equivalent) for all college work completed. The most recent transcript from the last school attended (full or part-time) must also show a statement of good standing.

Transfer students with fewer than 30 semester hours of transfer work must meet the same requirements specified above for beginning freshmen; they must submit high school transcripts and ACT or SAT scores as well as college transcripts. In addition, all transfer students except those who have earned an associate degree in a baccalaureate-oriented program at an Illinois public community college must show evidence of competence in English language and computation skills. These skills may be demonstrated by standardized test scores (English ACT subscore of 18 or SAT verbal of 400, and Math ACT subscore of 19 or SAT Quantitative of 430), by high school courses (successful completion of three years of English and one year of standard algebra), or by appropriate college courses in composition and mathematics.

Students currently enrolled at Illinois public community colleges may find it advantageous to complete the associate degree before enrolling at ISU. Illinois State University, in agreement with these colleges, allows a student with a baccalaureate-oriented associate degree to be admitted to ISU with junior standing and with all University Studies (general education) requirements completed.

After approving a student for admission, the Office of Admissions and Records will send the student and the student's academic adviser a statement specifying how the transferred credit may be used to meet curricular requirements at ISU. Transfer credit from two-year colleges is limited to 66 semester hours plus a maximum of 4 semester hours of physical education. Additional credit for military service is also possible.

Registered Nurses: RNs will be admitted to the University and granted 60 semester hours of transfer work if they have graduated from an accredited Associate Degree or Diploma nursing program with a 2.5 grade point average on a 4.0 point scale. To earn a baccalaureate degree, such students must complete the University Studies and the chosen major requirements.

Summer Visitors: Students attending other colleges who plan to continue at those institutions may enroll at ISU for the summer session by submitting a statement of good standing from the school that they are attending.

Unclassified Students: Individuals desiring to take a class or classes in the University without working toward any degree may be admitted as unclassified students if they have been out of high school for at least two years. Applicants will be required to provide evidence showing prerequisite background for the course(s) desired. Unclassified students must maintain the same standard of performance as degree students. Unclassified students who at some later time wish to become candidates for a degree must submit transcripts of all previous college work.

Readmission: Students wishing to return to ISU after being away for one or more semesters must apply for readmission through the Office of Admissions and Records (201 Hovey Hall). Readmission for a particular term cannot be guaranteed if the application is received less than two weeks prior to the beginning of classes.

Students who have been dismissed from ISU for poor scholarship must be reinstated by the University Reinstatement Committee before applying for readmission. Such students should complete an application for reinstatement at least two months prior to the term in which they desire to reenroll. Reinstatement forms may be obtained from the

Assistant Dean of Undergraduate Instruction, 404 Hovey Hall.

ISU students who have been away from the University for one or more semesters and who have in the meantime attended any other higher educational institution must indicate such attendance on the readmission application and supply an official transcript from the other school(s). Such students must also meet the admission requirements set for transfer students. Readmitted students should consult the section on Catalog Requirements to determine which catalog should be used to determine graduation requirements.

Special Admission: The University may admit a limited number of applicants with special characteristics, and abilities who show the potential for success in collegiate work but who do not meet all the regular admission requirements. The special admissions programs are as follows:

1. Talent Program: Applicants who demonstrate an outstanding talent in art, music, theatre, or athletics.
2. Early Admit Program: Applicants who can benefit from college-level work prior to graduation from high school on a full-time or part-time (concurrent with high school attendance) basis.
3. College Opportunity Admission Program: Applicants who have been economically or educationally disadvantaged and can benefit from college-level work if intensive support services are provided.
4. Veteran Program: Applicants who present an honorable discharge certificate showing completion of at least a two-year tour of duty in the Armed Forces.
5. Adult Learner Program: Applicants who are over 25 years of age.

For all of these programs, inquiries should be sent to the Director of Admissions, 201 Hovey Hall, and should specify the particular program of interest.

Orientation and Registration

Preview ISU: The University's summer orientation program, called "Preview ISU", is designed to acquaint new freshmen and their parents with the campus and its services and to provide the opportunity for students and parents to discuss campus life with faculty, staff and continuing students. During the two-day Preview programs, new students will take placement examinations, meet with academic advisers and register for fall classes. One-day "Transfer Day" programs are held for transfer students and their parents both during the summer and immediately prior to registration for the fall and spring terms.

Students who have been admitted and their parents receive registration materials for Preview ISU in the Spring. Further information is available from the Office of Admissions and Records, 201 Hovey Hall, 309/438-2181. Arrangements will be made to assist the handicapped during Preview. Handicapped individuals should notify the Coordinator of Services for the Handicapped, 207 Hovey, of any special needs prior to arrival on campus, voice 309/438-5853 or TTY 309/438-8620.

Orientation for a limited number of students who are unable to attend Preview is held during the week preceding the first day of the fall semester. Students entering during the spring semester should attend orientation during the week preceding the first day of classes. No orientation activities are provided for students entering during the summer; such students should contact the Academic Advisement Center for assistance at Julian Hall 210, phone 309/438-7604.

Placement Examinations: Placement Examinations are held to determine the level at which a student should enter particular sequences of University courses. Placement examinations are given during Preview, prior to academic advising and registration. A student's desired major and standardized test scores will determine any placement examinations that may be required.

Academic Advisement: Academic advisers work with each student during Preview to begin developing a long-range educational plan and to select appropriate first semester courses. Representatives from the academic departments will also be available during the Preview sessions.

Registration: New students register for classes during the Preview sessions after placement testing and advising. Detailed information concerning registration procedures for a given term is outlined in the *Directory of Classes*, which students receive when they arrive for Preview.

Medical Requirements: All students admitted to Illinois State are required to file a Medical History with the Health Service upon or prior to registration for 9 or more semester hours or upon entitlement to Health Service by other means. Students who plan to participate in University sponsored intercollegiate team sports will be required to

have a physical examination by a Student Health Service physician.

Medical History forms will be mailed to new students by the Health Service. These forms should be completed and returned immediately, or in the case of incoming athletes, be brought to the Student Health Service when they come in for their physical examination. Students with a handicap or disability are requested to have their physician send a copy of their complete medical file to the Director of Health Services. If the student does not receive the forms within 30 days of the beginning of the semester, the student is requested to write for them.

Along with their Medical History, all students must submit verification of the results of a T.B. skin test or chest x-ray accomplished within the previous year.

Incoming athletes who have been accepted for ISU admission and need a Health Service physical examination before fall team practice or tryouts should schedule the examination through their coach or with the Student Health Service as early as possible during the summer. Examinations can be given while the student is on campus for Preview but a specific time for the exam must be prearranged with the Health Service. Students who do not have an athletic scholarship will have to pay for the examination at the time it is given (\$15 during summer, \$20 after classes begin in the fall).

COSTS, HOUSING, FINANCIAL AID, AND STUDENT SERVICES

Tuition and Fees

Full-Time Student Costs per Semester: Students who register for 12 or more semester hours are considered full-time students and pay tuition and fees which are subject to change by action of the Board of Regents or General Assembly. Tuition for 1983-4 was not established at the time this catalog went to press.

	Residents	Non-Residents
Tuition (1982-3).....	\$390.00	\$1170.00
General Activity fee	20.25	20.25
Athletic and Service fee	32.00	32.00
Student Health		
Insurance fee*	23.00	23.00
Student Center/Auditorium fee	38.00	38.00
Recreational Facilities fee	9.00	9.00
Health Service fee*	24.75	24.75
Totals (using 1982-3 tuition)	537.00	1317.00

*Health Service and Health Insurance fees are assessed to all students who register for 9 or more semester hours.

Part-Time Student Costs per Semester: Students who register for fewer than 12 semester hours pay tuition and fees which are subject to change by the Board of Regents or General Assembly. Tuition for 1983-4 was not established at the time this catalog went to press.

	Residents	Non-Residents
Tuition per semester hour (1982-3)	\$33.00	\$99.00
General Activity fee	6.25	6.25
Athletic and Service fee	17.50	17.50
Student Center/Auditorium fee	19.00	19.00

Students registered for more than 6 but fewer than 12 hours may purchase an activity ticket by paying the General Activity fee of \$20.25 by the tenth scheduled class day. Payment of this fee by part-time students does not extend the privilege of playing at the Golf Course for student rates. Students registered for fewer than 12 hours pay the \$17.50 Athletic and Service fee and are admitted to athletic events for which admission is charged at a rate which is midway between the price charged a full-time student and the adult general admission ticket holder. Part-time students registered for more than 6 but fewer than 12 hours may elect to pay the Athletic and Service fee of \$32.00 and be entitled to the same privileges as full-time students for all athletic events providing the \$32.00 fee is paid not later than fifteen (15) calendar days after the first regularly scheduled class day.

Students registered for fewer than 9 hours may also pay the Student Health Service fee within fifteen (15) calendar days after the first regularly scheduled class day of the semester in order to obtain prepaid services. Students who do not prepay the Health Service fee can obtain Health Center care on a fee-for-service basis (individual service charge).

Audit Costs: Students taking only audit courses (courses without credit) are charged tuition at the rate of \$28 per credit hour to a maximum of \$340.

Residents and Non-Residents: A student under 18 years of age is a non-resident if that student's parents are not

legal residents of Illinois. A student over 18 years of age is a non-resident if the student is not a legal resident of Illinois at the time of registration. The director of Admissions and Records is responsible for applying out-of-state fees.

Special Fees:

Bachelor's Degree Graduation fee \$15.00
Late Registration and/or Late Payment

fee (after scheduled dates) 10.00
Transcripts are issued only after all student obligations have been met. A student wishing a transcript should make the request at the Transcript Office and will be required to pay the current fee. Course fees, where required, are identified in the course section of the Catalog. Material Charges listed under course offerings in the University catalogs are optional. A student may supply his or her own material and request the instructor in writing to waive the material charge.

Student Health and Accident Insurance: Each student who is enrolled for 9 or more hours and every graduate assistant is assessed a fee for a health and accident insurance policy each semester. The schedule of benefits includes services for hospital inpatient and outpatient utilization including emergencies, surgical and anesthesia fees, doctor's charges for illness including mental illnesses, consultation expense and ambulance services. The maximum amount payable for any injury or illness is \$10,000 and some of the expenses are subject to a deductible and co-insurance of 80 percent. In addition, if a student has other insurance, payments will be made at 50 percent after an initial \$100 payment. All insurance payments are made in accordance with the master policy which is available in the ISU Student Health Insurance Office.

Coverage for a student's qualified dependents may be obtained at an additional cost if an application is submitted to the Office of Student Insurance within the first 15 calendar days of each semester.

Coverage begins 48 hours prior to the first day of regularly scheduled classes each semester or summer session. This coverage is terminated on the first day of classes of the next regularly scheduled semester, presession, or summer session. Continuous year-round coverage is available if the student maintains University registration at 9 or more hours during the first and second semesters and applies for summer coverage at the Student Health Insurance Office by the last day of the spring semester. A conversion plan is available for students leaving the University.

Those students who have paid the ISU health insurance fee and produce evidence of equal or better coverage from another source may obtain an application for refund of the health insurance fee from the Student Health Insurance Office. Completed applications will be accepted at the Student Health Insurance Office during the first 15 calendar days of each semester (8 days of summer school).

The above information is a summary of the benefits and enrollment procedures for students and dependents. Persons desiring specific information about the ISU Student Health Insurance Plan should call or write to the ISU Student Health Insurance Office.

Payment of Tuition and Fees: Students who advance register for a semester will be billed for tuition and fees before the beginning of the semester. If the bill is not paid by the date it is due, the student's classes will be cancelled and the student must re-register at the beginning of the semester. Students who register for classes at the beginning of the semester must pay their bill at that time. The *Directory of Classes* lists specific dates.

Refund Policy: A registered student who officially withdraws from the University may receive a refund of tuition and fees, including any advance deposit, according to the following schedule:

1. If withdrawal is prior to the first regularly scheduled class day, all tuition and fees are refunded.
2. If withdrawal is within the first fifteen calendar days after the first regularly scheduled class day, all tuition and fees minus a service charge not to exceed twenty percent of the tuition and fees charged a full-time, undergraduate, in-state student are refunded.
3. If withdrawal is after the fifteenth day but no later than the thirtieth calendar day after the first regularly scheduled class day, twenty-five percent of the tuition charge only is refunded.

The university may designate shorter refund periods for summer session, special courses, and short courses.

A student who changes from full-time to part-time status or a part-time student who reduces the number of credit hours carried may receive a refund of tuition and fees according to the following schedule:

1. If the reduction is on or before the fifteenth calendar day after the first regularly scheduled class day, all tuition and fees not applicable to the new part-time status are refunded. A student receiving a refund of fees will not be eligible for activities and benefits covered by such fees. A service charge is not applicable to a student who changes from full-time to part-time status.
2. If the reduction is after the fifteenth but no later than the thirtieth calendar day after the first regularly scheduled class day, twenty-five percent of the difference in tuition charge only is refunded. The student would continue to be eligible for the activities and benefits covered by the other fees paid.

The university may designate shorter refund periods for summer session, special courses, and short courses.

The student may receive a refund of insurance fee if the student demonstrates equal or better insurance coverage on or before the fifteenth calendar day after the first regularly scheduled class day.

A student whose course of study requires absence from campus for the entire term shall, upon proper application, receive refund of Activity, Health Service, and Athletic fees. The application for such refund must be made on or before the fifteenth calendar day after the first regularly scheduled class day.

Pursuant to guidelines established by the University, part or all of a student's tuition and fees may be refunded because of the student's death or disability, extreme hardship, or institutional error.

A student may receive a refund of tuition and fees if a scholarship is awarded that covers those fees. The application for refund must be made no later than 60 days after the close of the session.

A student may receive a refund of tuition and fees if the University declares him or her ineligible for enrolled status prior to the first day of regularly scheduled class.

The statement of the refund policy for University housing is a part of the housing contract.

Estimated Total Yearly Expenses: Because Illinois State

University is a state-supported institution, the cost of attendance is relatively low. The estimated total expenses for the 1983-84 academic year (two semesters) is \$4,750 for an on-campus student classified as a resident of Illinois. This estimate includes approximately \$3,175 for tuition, fees, and on-campus room and board, plus an estimated \$1,575 for books, supplies, travel, and personal expenses. Estimated expenses for students who live off-campus and for students with dependents will vary according to differences in family size. Non-residents will incur higher tuition charges and will normally spend more on travel expenses. Tuition, fees, and on-campus housing charges are subject to change by action of the Board of Regents. All other figures indicated in the preceding information are also estimates at the time of this printing.

Campus Living Accommodations and Policies

Apartment Living

Two apartment complexes provide residents with an environment conducive to both personal and academic growth. Qualifying upperclass students and all married, family, and graduate students are eligible to reside in these units. There are 292 unfurnished apartments in the two complexes, Cardinal Court and 300 Shelbourne Drive, offering residents a quiet environment, community atmosphere, outstanding maintenance service, spacious grounds, and good proximity to academic buildings. Rental rates for the 1983-84 year range from \$140 to \$210 per month. Water and cable television service are provided by the University; all other utilities are paid by the resident. A \$150 security deposit is required and is held until after occupancy is terminated.

For additional information and an application contact the Office of Residential Life.

Residence Halls

The University owns and operates 14 residence halls, providing living accommodations for approximately 8,000 students. These facilities include spaces accessible to handicapped students. The residence halls have been designed to provide not only basic living requirements, but also counseling, advising, educational, and recreational programs. The University regards residence hall living as an important part of University life and requires that certain students reside in the residence halls as a condition of enrollment.

Professional staff, aided by undergraduate Resident Assistants, are responsible for educational programs, policies, and facilities within the residence halls.

Room assignments are made after consideration of each student's preference, not only of location, but also of living style. Arrangements may be made to spread residence hall payments over a period of time to aid in budgeting for an academic year.

The room and board rate in the residence halls for the 1983-84 academic year is \$2,088 for multiple occupancy and 18 meals per week. A limited number of single rooms are available for an additional cost of \$200 per semester. For students selecting a 15-meal contract without weekend meals, there is a reduction of \$15 per semester from the basic contract. A \$50 security deposit is required which is retained until the final period of occupancy; additionally, a \$25 application and processing fee is assessed. Students

are expected to furnish linens, towels, blankets, pillows, bedspreads, and waste baskets.

On-Campus Housing Policies: Entering freshmen who have not previously attended this University must reside in University-operated residence halls for their first four (4) semesters. Students transferring to this University as sophomores (as classified by the Office of Admissions) must reside in University-operated residence halls for their first two (2) semesters. These regulations are applicable to all students registered for twelve (12) or more semester hours insofar as space is available in University residence halls. Residence hall living for two summer sessions is equivalent to one semester. Each exempted semester counts toward the requirement.

The University may make exemptions for certain categories of students based upon guidelines related to marital status, proximity of home to campus, age, and other pertinent factors. Special consideration will also be given to applications for exemption, received prior to August 1, from sophomore students who are members of fraternities or sororities and who will be residing in that organization's house. If students wish to appeal a decision concerning their petition for an exemption to the On-Campus Housing Policy, they may obtain information on the appeals procedure from the Office of Residential Life.

Off-Campus Housing Policies: Illinois State University has discontinued its classification of any off-campus housing as being approved by the University. The University has no participation in housing contracts issued to students renting space in private housing and does not participate in the inspection of any off-campus housing.

Financial Aid

Approximately seventy-one percent of Illinois State University students receive some type of financial assistance that is used for their education-related expenses. Three major types of financial assistance are available from federal, state, University, and private sources. These three types of aid include the following: 1) grants and scholarships; 2) part-time employment; and 3) loans. All financial aid is coordinated through the Financial Aid Office located in 211 Hovey Hall. Scholarship, grant, and loan checks issued by Illinois State will be automatically credited or restricted to pay in full all outstanding University debts, charges, and penalties, including registration and housing charges. Students interested in receiving financial aid are strongly encouraged to complete necessary applications before the priority deadline date of April 1 in order to receive full consideration.

General Eligibility Criteria: To qualify for Federal or State financial aid programs, an applicant must:

1. Be a citizen of the U.S. or a permanent resident.
2. Demonstrate financial need as determined by a formula known as Uniform Methodology, a method approved by the U.S. Department of Education.
3. Be enrolled at least as a half-time student in a program leading to a degree or certificate (classified). Unclassified students are not eligible for any type of Federal or State financial aid.
4. Not be in default on a NDSL or Guaranteed Loan received for attendance at ISU.
5. Not owe a repayment to a grant program received for attendance at ISU.
6. Make satisfactory progress toward a degree as defined by ISU.

For further information, students may refer to the *Illinois*

State University Financial Aid Information Guide, or contact the Financial Aid Office.

Application Procedures: Students who wish to apply for Financial Aid should complete the following:

1. The ISU Application for Financial Aid.
2. The Application for Federal Student Aid. This form is used for National Direct Student Loan (NDSL), College-Work Study (CWS), Supplemental Educational Opportunity Grant (SEOG), High Potential Students and University Scholarships as well as Pell Grant and the Illinois State Scholarship Commission Monetary Award.
3. Financial Aid Transcript (from any other colleges attended). This transcript must be submitted even if the student did not receive financial aid from the previous school(s). The Financial Aid Transcript is not the same as the academic transcript required by Admissions.
4. Documentation to verify 1982 income for parents and/or students is required to complete the application process for ISU Financial Aid Office. Tax returns as well as documentation from any agency from which non-taxable income is received will be required. See instructions on the ISU Financial Aid Application.

The preferential filing date for all application forms is **April 1** each year. Applications received after that date will be processed according to **available funds** and staff time. Applicants whose forms are received in the Financial Aid Office after August 1, 1983 should not expect distribution of aid funds before November 15, 1983.

Read the instructions with each application very carefully. Complete all applications accurately, using information from actual completed tax returns. Discrepancies in data will delay awarding and disbursement of aid. Due to limited funds, late and/or discrepant information could keep the applicant from receiving any aid.

Satisfactory Progress

1. Illinois State University requires satisfactory progress toward a degree as an eligibility requirement for continued financial assistance.
2. The amount of any financial aid award is based on a number of factors, including the number of hours in which the student is enrolled at the time funds are disbursed.
3. For purposes of this policy, academic term is defined to include the summer session and regular semesters.
4. A student must earn at least the academic hours for which financial aid dollars were received for each academic term. Full-time students must earn at least twelve semester hours during each semester and at least six semester hours during regular summer session. Three-quarter-time students must earn at least nine hours during each semester; half-time students must earn at least six hours during each semester.
5. A student will not be subject to the policy during his/her first undergraduate and/or graduate academic term at Illinois State University.
6. A student enters 'violation status' at the close of any academic term exclusive of his/her first academic term in which the number of hours earned was fewer than the number of hours for which financial aid funding was received.
7. To clear this status, the student must not violate this policy during the next two academic terms as a financial aid recipient.
8. Any student who violates this policy while in 'violation status' will be considered ineligible for future financial aid.
9. This policy is applicable to all students receiving

- University administered financial aid funds during any academic term. Categorical exceptions approved by the Provost will be handled by the appeal process.
10. Prior to the disbursement of funds for any award period, the Director of Financial Aid will review the eligibility of applicants. Those in violation of this policy will be notified in writing of their eligibility status.
 11. Students declared ineligible for financial aid under this policy will have the opportunity to appeal. The appeal procedure must be initiated by the student's securing a Satisfactory Progress Appeal Petition from the Financial Aid Office and returning the completed form with documentation to that office prior to the tenth day of class of the next academic term during which the student is enrolled.

Financial Aid Refunds: As your "Statement of Educational Purpose" (signed on the ISU application) indicated, financial aid funds are to be used only for expenses related to attendance at ISU. Therefore, if you withdraw from or stop attending ISU AFTER RECEIVING AN NDSL, SEOG, OR PELL Grant, you may be required to repay all or a portion of the awards. The first step in the determination is to subtract from the sum of these awards the total institutional charges not covered by another grant, scholarship or waiver. If the difference is positive and exceeds \$100 YOU WILL BE REQUIRED TO REPAY A PORTION OF THE AMOUNT OVER \$100 based on the following schedule:

- A. 50 percent, if you withdraw or stop attending within the first 15 calendar days of the session (8 CALENDAR DAYS FOR SUMMER SCHOOL).
- B. 25 percent, if you withdraw or stop attending between the 16th and 30th calendar day of the session (between 9th and 15th calendar day for summer school).
- C. No repayment will be required if you withdraw after the 30th calendar day of the session (15th calendar day for summer school); however, the Satisfactory Progress policy still applies. The amount to be repaid by the above calculation will be further reduced by any refund due from institutional charges.

The amounts repaid will be distributed to the awards in this sequence: NDSL, SEOG, and PELL Grant.

Failure to make the required payment will result in a hold on academic and financial aid transcripts, barring of future registration, ineligibility for future financial aid, and any other collection activities deemed appropriate.

Unclassified Students: Unclassified students are defined as those students not enrolled in a specific undergraduate or graduate degree program. Federal Regulations specify that financial aid **cannot** be awarded to unclassified students.

Confidentiality and the Release of Information: In keeping with the Rights and Privacy Act, as amended, regarding the confidentiality of student records, the Financial Aid Office will release information about the financial status of a student to those parties within the University concerned with the financial welfare as related to the student's attendance at ISU. Thus, certain inquiries from off-campus agencies, landlords, etc. will be answered by Financial Aid staff only if the student requests that this information should be given to specific individuals or agencies by signing a 'Consent to Release Information' form available in the Financial Aid Office. To protect the confidentiality of the student's records, the Financial Aid Office will request proper identification in person before releasing any information concerning the financial aid status.

Parents or anyone other than the student will not be given

specific information concerning a student's financial status. Students are encouraged to check on all records concerning their financial aid.

Federal Grants and Benefits

Supplemental Educational Opportunity Grants (SEOG): This program provides grants for students with exceptional financial need. Grant awards may range from \$200 to \$2,000; however, funding limitations restrict the average award at ISU to \$1,000 per academic year. Students interested in applying for an SEOG for the 1983-84 academic year should refer to the Application Procedures.

Pell Grant, formerly Basic Grant or BEOG: This program provides federal financial assistance in the form of grants to undergraduate students demonstrating need for such assistance. Refer to the Application Procedure to be considered for a Pell Grant at ISU. Students will receive a Student Aid Report (SAR) approximately six weeks after applying that will indicate the results of the application. If complete and accurate, **all copies of the SAR should then be submitted immediately to the ISU Financial Aid Office** where the amount of the Pell Grant will be determined. A photocopy of this report should be retained for the applicant's own records.

Department of Rehabilitation Services: Under Public Law 113, the federal and state governments jointly provide rehabilitation services to any disabled individual to enable the person to engage in a remunerative occupation. These services may include a financial grant that covers all or part of the tuition and fees and/or the student's maintenance costs. For detailed information and assistance in making application for State Rehabilitation Services Assistance, write to the Department of Rehabilitation Services, 623 E. Adams Street, P.O. Box 1587, Springfield, Illinois 62706.

Social Security Benefits: Some students not yet twenty-two years of age whose parents are deceased, disabled, or retired may be eligible for Social Security benefits and should contact their local Social Security Office to secure such benefits.

Veterans G.I. Bill: Benefits are available until ten years after the date of discharge for any veteran of the Army, Navy, Marine Corps, Air Force, or Coast Guard who was not dishonorably discharged and who (1) served continuously on active duty for at least 181 days ending after January 31, 1955, but before January 1, 1977, or (2) served less than 181 days, if active duty was ended by a service-connected disability, or (3) serves presently in the Armed Forces, with at least 181 days active duty. Benefits will be paid a maximum of forty-five months. Veterans who first entered active duty after December 31, 1976, must have contributed to the education fund to be eligible for a maximum of thirty-six months of benefits. Contact the ISU Veteran's Affairs Office for details.

Survivors' and Dependents' G.I. Bill: Children and spouses or survivors of veterans whose deaths or permanent total disabilities were service-connected in the Armed Forces after the beginning of the Spanish-American War may be eligible for benefits. Children of servicemen or servicewomen missing in action or prisoners of war for more than 90 days are also eligible. Assistance is available to eligible children during the period that begins on the date of the eighteenth birthday or successful completion of high school, whichever comes first, and ends on reaching the twenty-sixth birthday.

National Guard Scholarship: Any enlisted person actively serving in either the Illinois Army or Air National

Guard or Illinois Naval Militia and who meets the following requirements may participate in the College Scholarship Program. Other qualifications include: (1) Must possess all necessary college or university entrance requirements. (2) Must apply to the Illinois State Scholarship Commission (ISSC) for the scholarship and supply proper proof of eligibility. Eligible applicants will receive an entitlement card that is to be presented to the institution for authorization of tuition and fees covered under this program. (3) If applicant ceases to be a member of the Illinois National Guard or Naval Militia, the educational benefits will be terminated as of the militia termination date. Contact the Financial Aid Office for further information.

State Scholarships and Grants

A student awarded a State Scholarship who does not plan to attend during consecutive semesters may need a leave of absence and should contact the Financial Aid Office for further instructions. State Military Scholarships may be used by students enrolled for classes on or off-campus; other State Scholarships may be used only by persons enrolled on-campus.

Illinois State Scholarship Commission (ISSC) Monetary Award Program: The Illinois State Scholarship Commission Monetary Award Program makes tuition and fee grants available to undergraduate students on the basis of financial need. The applicant must be a United States citizen or a permanent resident of the United States and a resident of the State of Illinois, as determined by the legal residence of the parent(s) or legal guardian(s). Applications are available from high school counselors or the ISU Financial Aid Office.

Applicants for the Illinois State Scholarship Commission Monetary Award (ISSC) must be sure to check the question concerning release of information to the state agency as "yes" on the need analysis form they complete (Refer to Application Procedures).

Illinois Veterans Scholarship: A veteran who was a resident of Illinois both before and after one year or more of active duty, and received other than dishonorable discharge may qualify for the Illinois Military Scholarship which pays tuition and some fees.

However, two restrictions which effect new applicants have recently been added to the Illinois Veterans Scholarship. They do not affect veterans who have previously used it.

1. New applicants (i.e., those applying after September 16, 1981) who were discharged from active duty after May 7, 1974, will not be eligible for the scholarship.
2. New applicants who were discharged on or before May 7, 1975, will not be able to use the scholarship to pay for their activity fees; it can be used for tuition only.

All veterans applying for the IVS must submit a photocopy of their DD214 to the Office of Veterans Affairs, Room 417, Hovey Hall. Please contact this office also if you have further concerns.

State Special Education Scholarships: The State Special Education Scholarships are made available by legislative enactment to selected high school graduates who agree to take courses that will prepare them to teach handicapped children. To be eligible, a student must be in the upper half of his or her high school graduating class. The scholarship is valid for not more than four years of attendance within a six-year period. This scholarship carries an obligation to teach in Illinois two of five years following graduation, or the amounts received must be repaid to the State of Illinois in total with interest at the rate of five percent. Interested persons should contact the

Superintendent of their Regional Office of Education about this scholarship which covers tuition and activity fees for each semester and summer session.

General Assembly Scholarships: General Assembly Scholarships that cover tuition and activity fee charges are usually awarded one year at a time. Interested students should contact their State Representative or Senator. A competitive examination may be given to determine eligibility. The student must be a resident of the district from which he or she hopes to obtain the scholarship.

Regents' Tuition Waivers: Except in intercollegiate athletics and the International Studies program, undergraduate tuition waivers are used to recruit academically talented students. To the extent possible, financial need is considered in the award of all undergraduate tuition waivers.

University Scholarships

When funds are available, these scholarships are awarded on the basis of financial need or academic achievement. They are generally restricted to students earning a grade point average of 3.00 or above. Talent scholarships in such areas as speech, music, theatre, and athletics are available through individual departments. Competitive academic scholarships (Foundation Alumni Distinguished Scholarships and National Merit Scholarships) are administered by the Office of Admissions and Records. Further information concerning specific University scholarships may be obtained by contacting the Assistant Dean of Undergraduate Instruction, Hovey 404.

Private Scholarships

Approximately 200 private agencies award private scholarships to ISU students annually. These agencies include clubs, foundations, organizations, corporations, and churches. Requirements are determined by the individual agency and are usually based on academic achievement or some other criteria. Students should contact their local area clubs and organizations for application.

Loan Programs

Auxiliary Loans to Assist Students (ALAS): Effective August, 1982, the ALAS program became available to Illinois students. As with the Guaranteed Student Loan Program, applications are obtained from the lending institutions (bank, credit union, etc.) which participate in the program.

Loan Limit: For graduate/professional students (exclusion of any Guaranteed Student Loans the student has received) the limit is \$3000 per academic level. The maximum aggregate amount that a graduate /professional student may borrow is \$15,000 (exclusive of GSLs that the student has received). In all cases, loan amounts are at the discretion of the lender, up to the program maximum, and may never exceed the total educational expenses minus financial aid awarded. Fees are charged just as in the GSL program.

Repayment of Loan: A student is obligated to repay the lender the full amount borrowed, plus interest. The repayment period begins on the day the loan is disbursed, and interest begins to accrue on that day. The lender may charge an interest rate of 12 - 14 % per year, depending on value of T-certificates, on the unpaid principal balance of an ALAS loan. The first payment is due within 60 days of the beginning of the repayment period. Generally a borrower is allowed at least 5 years, but not more than 10 years, to repay the loan. A \$50 minimum monthly payment is required.

National Direct Student Loan (NDSL) Program: Loans through this program are awarded by the Financial Aid Office based on financial need. The need is calculated through an analysis formula approved by the federal government. Students are required to follow appropriate application instructions. A student may be awarded up to \$1,000 per academic year, not exceeding \$3,000 up to the junior year, and not more than \$6,000 as an undergraduate. Repayment begins within 6 months following graduation or after the student ceases to be at least a half-time student. The interest rate of 5% is paid by the government while the student is in school; upon repayment, the interest is paid by the borrower.

Guaranteed Student Loan Program (GSL): Applications for this program are available from participating banks, credit unions, and savings and loan associations. Students are encouraged to contact hometown lending institutions.

Loan Limits: Undergraduate students may borrow up to \$2,500 per class level, not to exceed a maximum of \$12,000.

Class Level: Class levels are categorized as follows: 0-29 hours, Freshman; 30-59 hours, Sophomore; 60-89 hours, Junior; 90-120 hours, Senior.

GSL Need-Based Program: As a result of the Postsecondary Student Assistance Amendments of 1981, effective October 1, 1981, the Guaranteed Loan Program became a need-based financial aid program. Under new legislation, income information will be required from each applicant's family.

Insurance and Origination Fees: Changes prior to October 1, 1981, enacted additional fees to the initial disbursement of Guaranteed Loans. The Guarantee Agency of Illinois now requires a 1% insurance premium per annum for all loans made after August 1, 1981. Legislation passed in August, 1981, requires a 5% origination fee be taken from the originally approved loan amount.

Repayment: Repayment provisions are outlined on the student promissory note. The note should be read carefully since provisions differ depending on the date the note was executed.

Student Employment

For those individuals on the ISU student payroll, the hourly rates range from \$3.35 to \$4.00. This pay range is subject to change by action of the State of Illinois or Illinois State University. Students enrolled for six or more semester hours may work part-time at Illinois State University. Eligible student employees usually work ten to twenty hours per week while classes are in session.

College Work-Study Program: This federally-sponsored program enables students with demonstrated financial need to earn a portion of their expenses while they are enrolled at Illinois State. Refer to the Application Procedures to be considered for College Work-Study. The federal government pays eighty percent of a Work-Study student's earnings, while the employer pays the balance. A student employed 10-20 hours per week can usually expect to earn between \$1,000 and \$2,100 a year. Work-Study students may find jobs on-campus (food service, library, union, department offices) or in nonprofit off-campus agencies (hospitals, youth centers, counties, cities, elementary or secondary schools). Work-Study positions are posted on job boards located outside the Financial Aid Office in Hovey Hall.

Students go directly to the employer for an interview and, if hired, must complete state and federal withholding tax forms in the Payroll Office in 101 Hovey Hall. Work-Study employers must also complete and return a Student Em-

ployment Form for all students hired. Students are not permitted to earn more than their Work-Study eligibility as determined by Federal regulations.

Regular Student Employment: Those students who desire to work on or off-campus and who have not been awarded Supplemental Educational Opportunity Grant (SEOG), National Direct Student Loan (NDSL), or College Work-Study funds are eligible for any part-time employment positions on or off-campus. The Financial Aid Office has information on such employment opportunities posted on referral boards located outside the Financial Aid office in Hovey Hall.

Financial Aid Check Distribution Information: Financial aid checks are distributed throughout the academic year. The schedule of check distribution dates is indicated on the back cover of the Financial Aid Information Guide. Please note only loan checks may be available the first day of classes. You should be prepared with some cash to buy books and supplies.

Before any campus-based aid (NDSL, SEOG) checks will be written, you must have received an award letter which you had previously signed, dated, and returned one copy to the Financial Aid Office. Allow two to four weeks for the returned copy of the award letter to be processed.

A Pell check will be written only after all three pages of a Student Aid Report (SAR) have been submitted to the Financial Aid Office, and **all discrepancies are cleared**. IGLP checks will be made available as notifications and money are received by the Financial Aid Office. To claim his/her check in person, the student must present an ISU ID card and either a valid activity card or drivers license at the Check Distribution Center. The Check Distribution Center is Hovey 106. Students who cannot pick up their aid checks in Hovey Hall because of student teaching, studying abroad, illness, etc, should write to the Cashier's and Collection's Office, indicating their name, social security number, and request that their check(s) be mailed to a specific address.

Student Services

Student Affairs Office

The central Student Affairs Office is responsible for fulfilling several broad functions within the University community. The major emphasis is directed toward administrative and programmatic coordination of all identified units in the Student Affairs Division. The office also maintains a formal liaison relationship with four major elective student organizations (Association of Latin American Students, Association of Residence Halls, Black Student Union, and Student Association). The Student Affairs Office is responsible for apprising the University community of student needs and concerns while at the same time interpreting the University's position on various issues and concerns to the student body.

Career Counseling

Illinois State University offers numerous opportunities to help students clarify their career and vocational goals. Among the sources of help available is the *System of Interactive Guidance Information (SIGI)*, a computerized guidance system, located in the Student Counseling Center. The goal of the SIGI system is to provide information to students about career opportunities consistent with their interests and values and to assist students in establishing career plans. In addition to services offered by the Student

Counseling Center, the Academic Advisement Center, Placement Service, and High Potential Students/Student Academic Services Office continue to develop programs to assist all students in career choices. The Placement Service also maintains employment records of past graduates by major fields of study. Students are also encouraged to seek information about employment opportunities in their major field by consulting their department offices.

Counseling Center

The Student Counseling Center (SCC) at Illinois State University is responsible for meeting the psychological needs of ISU students. The Center provides the full-range of counseling services, including individual and group counseling, career development counseling, personal development groups and consultation to individuals or groups. The Center is staffed by professional counselors who have received special training in helping college students face the many problems of university life. Counselors assist students in an unbiased, non-judgemental manner with a wide variety of personal concerns and problems. These include concerns about relationships, special problems, unwanted habits, life decisions, as well as more serious problems. A person may initiate contact with the Center by either calling or coming directly to the Center (56 DeGarmo) during working hours 8-4:30, Mon.-Fri.). The Center also has an afternoon walk-in counseling service from 1-4 p.m. and students often make their first contact with the Center through this service. All contacts with the Center are confidential and are not part of a student's school record. All services are free of charge. In addition to the above services, the Center also maintains a Career Center which is located adjacent to the Counseling Center. Career information is available at this Center, including a computerized vocational guidance system (SIGI) to assist students in making career decisions.

Financial Aid

The Financial Aid Office administers and coordinates in excess of thirty-three million dollars in aid funds to approximately seventy-one percent of the total student population at Illinois State University. These funds are available to increase post-high school educational opportunities to qualified students. Financial Aid Advisors are available on a walk-in basis Monday through Friday in Hovey Hall 211, to provide individual assistance to students and parents regarding types of aid programs available, eligibility requirements, application procedures, need analysis, part-time employment, money management, aid revisions, registration billing adjustments, and other related areas.

Student Health Center

Illinois State University maintains a Student Health Service as an integral part of its service for students. All students who register for 9 or more semester hours during the first and second semester (6 or more for summer school) pay a health fee. This fee entitles the student to use the services at the Student Health Center for the entire session. Students who register for less than 9 semester hours (fewer than 6 for summer school) have an option of paying a health fee within the first 15 calendar days of classes (8th day for summer school) or obtaining service on a "pay-as-you-go" (fee-for-service) basis. Presession students and spring semester students who do not plan to attend the summer classes (but are registered for fall) may obtain prepaid summer health care if they pay the appropriate health fee by the 5th day of presession classes. Spouses of full-time enrolled students are eligible to use the services of the

Health Center if they pay the health fee within the above deadlines and have health insurance comparable to the ISU plan. All optional health fees are payable at the Student Health Center.

The Health Service is located in the Rachel Cooper wing of Fairchild Hall in the center of campus. Physicians and registered nurses provide outpatient clinical services. The services also include a diagnostic laboratory, x-ray, pharmacy and infirmary. A registered nurse is on duty at all hours of the day and night during fall and spring semesters except for official University vacation periods.

All students entering ISU are encouraged to have a dental examination and necessary dental work accomplished by their family dentist prior to registration. Dental services are not provided by the Health Service nor are they covered by the Student Health and Accident Insurance Plan except as the result of accidental injury.

Complicated illnesses or injuries requiring surgery or long term care will usually be referred to an outside physician. New students who have chronic medical conditions such as diabetes, ulcerative colitis, or epilepsy, which requires long term and projected treatment should plan to obtain the services of private physicians for the continuing supervision and management of their case. The Health Service will be glad to cooperate, furnish supportive care and assist the student's physician in the student's care if the private physician furnishes written findings and instructions. There are three hospitals and competent medical specialists in the Bloomington-Normal area to handle such medical problems when required.

Placement Service

The Placement Service serves the University in many ways. It informs students and alumni of the University of available positions, instructs them in making effective applications, helps them to recognize and observe good professional procedures, and provides related information which will help them to secure good positions. It also seeks to aid officials of schools, businesses, and governmental agencies to find qualified applicants for positions. It informs students, faculty, and departments about present supply and demand trends.

Residential Life

The University operates both residence halls and apartments. Full information and assistance in acquiring space in a residence hall or an apartment may be obtained from the Office of Residential Life.

Student Judicial Office

The Student Judicial Office provides administrative support for the Student Code Enforcement and Review Board (SCERB). SCERB is responsible for the review and enforcement of student regulations and the review of student grievances. For further information concerning student rights and responsibilities and SCERB, consult the *University Handbook*, available through the Office of the Vice President for Administrative Services in Hovey Hall or the Student Judicial Office in Julian Hall.

Student Life and Programs

The Student Life and Programs Office is primarily concerned with encouraging the total development of the student at Illinois State by coordinating and promoting educational, recreational, social, cultural, and entertainment programs that create opportunities for out-of-classroom interaction and individual growth. Through the

office's professional staff and with the involvement of University faculty and staff, advisement and support is offered for all registered student organizations. The University recognizes the role organized activities serve in complementing the educational experience of students. Students are encouraged to participate in programs sponsored by the wide variety of organizations active on campus. Individual and group development is provided by means of a year-long, comprehensive series of workshops. The Office maintains a relationship with the social sororities and fraternities on campus and coordinates a variety of University-wide activities and performing events through involvement with the entertainment programming organizations. A description of the many organizations and activities on campus is provided in the student organization handbook which is available in many University offices including the Student Life and Programs Office, 146 Braden Auditorium.

Bone Student Center/Braden Auditorium

Bone Student Center provides facilities, programs and services, primarily for students, which complement the educational goals of the University. Included within the Center are a McDonald's and other restaurants, a bookstore, banking and check cashing, a travel agency, lounge areas and multi-purpose rooms for student activities and programs. Adjacent to the Center are a Bowling and Billiard Center and a 500-space parking lot.

Braden Auditorium seats 3,457 on three levels. It is an academic and public service facility and an entertainment center for the University and the community.

Veterans Services

The Office of Veteran Affairs is located in 417 Hovey Hall. The office advises veterans and their dependents on matters relating to benefits and payments.

Certain dependents of deceased war veterans are entitled to educational benefits from the Veterans Administration. A student seeking such benefits should contact the Veterans Affairs Office.

Student Clubs and Organizations

Students' academic interests are complemented by a wide variety of co-curricular activities available on campus. The following organizations offer students the opportunity for interaction and involvement. The means whereby students may demonstrate leadership, creativity, and initiative are provided through participation in registered student organizations.

Student Association: The Student Association is a two-pronged organization that provides services to students and advocates issues of student concern. Each spring, the student body elects the Student Association President, the Vice-President, the 33 member Student Association Assembly, and the student members of the Academic Senate. The elected students come from both on and off campus constituencies. Every student at ISU is a member of the Student Association and as such is eligible to vote in any Student Association election. Students are represented on nearly every major University committee including college councils and committees that advise the University President.

Anyone who would like to become involved with a University Committee or any other aspect of the Student Association should stop by the Student Governance Offices at 225 North University or call 438-8761.

Major Student Association Services include:

Students' Legal Services: Students may obtain advice, consultation, and representation by an SLS attorney in McLean County courts and before state and local administrative agencies.

Tenant Union: Advice for student tenants is given by this agency. Rental listing guides are available at the Tenant Union which enable students to see which rental units in town are open. The Tenant Union takes action in landlord/tenant disputes involving less than \$1,000 in damage.

Printing Services: This service offers students copying and printing at a minimal expense. Students and/or groups can bring in announcements, papers, and cards to be duplicated.

Affirmative Action: Students who feel they have been discriminated against are encouraged to seek the aid of the Affirmative Action officer.

Book Exchange: Through the Book Exchange, books may be bought and sold by students at rates set by students. The money from the sales goes to the students.

Yearbook and New Student Record: This service provides Senior Yearbooks to those who order them. Senior photos appear in the yearbook free of charge. The New Student Record is a freshman yearbook.

Consumer Affairs: Students who feel that they have been exploited by a business should contact the Consumer Affairs director. This service provides consumer information on various products.

Voter Registration: This service registers students for voting in primary, local, and general elections. The Student Association is a member of the Student Advisory Committee to the Illinois Board of Higher Education as well as the Illinois Student Association.

Association of Residence Halls: All students living in the residence halls are members of the Association of Residence Halls (ARH). The organization provides effective student input into residence hall policy formation, staff selection, room and board rates, renovations, food service, and other topics that affect residence hall students. The ARH Assembly consists of representatives selected by the student government of the various residence halls, with officers chosen by a student election during the spring semester. Each member of the assembly serves on one of six standing committees including Policy Review, Services, Publicity, Long Range Planning, Food, and Programming. Additionally, the Association has designated individuals to represent ARH on the Contract and Residency Review and the Room and Board Committees. All of the concerns, needs, and interests of residents are channeled through one of these committees.

ARH is involved with many activities, including task force trips to other Universities, and offers a wide range of programs and services. The ARH Program Board sponsors several social, educational, and cultural programs open to all residents. Some services provided by the ARH are Operation Identification, 24 hour MOMMY, telephone activities hotline, *What to Bring List* for freshmen, a Newsletter, photography darkroom, winter storage for bicycles, and more. ARH is also affiliated with state, regional, and national organizations that have similar concerns.

If a student is interested in getting involved in ARH or would like to obtain further information, contact the ARH Office in Watterson Towers, North Tower, Formal Lounge Level (436-6635).

Black Student Union: The Black Student Union is responsible for developing and providing opportunities for Afro-American students to involve themselves in creating relevant

vant cultural programs. It is further responsible for promoting positive identification, association, and relationship for Afro-American historical and contemporary culture. It provides an atmosphere conducive to the psychological and social needs of Afro-American students. The Black Student Union provides opportunities for the development of decision-making abilities and potential talents of students. The Black Student Union also provides a vehicle for students to understand their relationship to the total university community. Liaison relationships are maintained with the Student Affairs Office, Illinois Association of Black Students, and Midwest Association of Black Student Governments. Major Black Student Union (BSU) activities include:

The Informer — A monthly publication to keep students informed of events that vitally affect them.

Black Awareness Committees — Ongoing committees to promote the preservation of Afro-American life and culture.

Student Communication Media: The *Vidette* newspaper is published daily by students to present important campus news and to reflect student life. Students interested in journalism can receive valuable experience in writing, makeup, and editing. The student editor appoints a staff of assistant editors and reporters. A faculty general manager supervises the publication.

WZND is a commercial AM/FM student-oriented radio station serving both the campus and the Bloomington-Normal community. Programs include locally produced news, sports, and public affairs, as well as ABC-FM national network affiliation. WZND is a campus organization with membership open to students interested in all phases of broadcasting.

TV 10 News is a nightly television news program telecast from the ISU studios and carried to the Bloomington-Normal community through the local television cable system. It is produced by the Office of Public Affairs and the Department of Information Sciences with professional direction. Students working on the program in news or technical positions may earn academic credit for their participation.

Departmental Clubs: Registered organizations associated with an ISU academic department are as follows: Student Accounting Society, Society for Advancement of Management, Alpha Beta Alpha, American Society of Safety Engineers, Biology Club, Block and Bridle Club, Business Administration Club, Business Information Systems Club, Business Week Organization, ISU Chem Club, College of Business Executive Committee, Association for Computing Machinery, Student Criminal Justice Association, Design Streak, Council for Exceptional Children, Student Elementary Education Board, Student Environmental Health Association, Fashion Merchandising Club, Finance Club, Forensics Union, Forum on Early Adolescent Education, ISU Geology Club, ISU German Club, Health Education Club, Phi Alpha Theta/History Club, Home Economics Education Association, Industrial Education Club, Student Journalism Society (Sigma Delta Chi), Human Services Organization, ISU Law Club, Math Club, American Marketing Association, ISU Medical Sciences Club, Society of Medical Technology, National Association of Home Builders, Minority Business Student Association, Music Therapy Club, Student Nutrition/Dietetic Club, Phi Beta Lambda, Administrative Management Society, Physical Education Majors' Club, Society of Plastics Engineers, Psychology Club, Public Relations Student Society of America, ISU Physics Club, Social Work Club, ISU Spanish Club, Speech Communication Undergraduate Association, Student Speech and Hearing Association, Student Television Workshop.

Entertainment Programming Organizations: Campus groups that provide University-wide entertainment include: Capen Cinema, Entertainment Committee, University Forum, Homecoming Board, LaRitz, New Friends of Old Time Music, Student Center and Auditorium Board, University Program Board.

Fraternities and Sororities: Coordinating groups for Greek affiliates include the Interfraternity Council, the Panhellenic Association, and the National Pan-Hellenic Council. The social fraternities on campus are: Alpha Gamma Rho, Alpha Kappa Lambda, Alpha Phi Alpha, Alpha Tau Omega, Beta Eta Tau, Beta Sigma Psi, Delta Chi, Delta Sigma Phi, Kappa Alpha Psi, Kappa Delta Rho, Lambda Chi Alpha, Nu Beta Omega, Omega Psi Phi, Phi Beta Sigma, Phi Sigma Kappa, Sigma Nu, Sigma Phi Epsilon, Sigma Pi, Sigma Tau Gamma.

The social sororities on campus are: Alpha Delta Pi, Alpha Gamma Delta, Alpha Phi, Chi Omega, Delta Delta Delta, Delta Sigma Theta, Delta Zeta, Gamma Phi Beta, Gamma Phi Lambda, Kappa Delta, Pi Beta Phi, Sigma Gamma Rho, Zeta Phi Beta, Zeta Tau Alpha.

General Interest Groups: Registered groups meeting a variety of students' interests include: Alpha Angels, Student Alumni Council, Heritage Dancers, ISU Student Athletic Trainers Association, B'nai B'rith Hillel, International Business Club, Dungeonmasters Association, Gay People's Alliance, Honors Student Organization, Interdenominational Youth Choir, Middle East Student Association, Non-traditional Student Association, Omega Pearls, Peace and Justice Coalition, Students Promoting Redbird Teams, Ranger Club, WZND Radio Station.

Honorary Societies: Registered academic honorary societies at Illinois State University include: Alpha Chi (Scholastic), Alpha Phi Sigma (Criminal Justice), Alpha Tau Alpha (Agriculture), Alpha Zeta (Agriculture), Chi Gamma Iota (Veterans), Delta Sigma Pi (Business), Eta Sigma Gamma (Health and Science), Golden Key National Honors Society, Jr-Sr Scholastic, Iota Lambda Sigma (Industrial Education), Kappa Kappa Psi (Music), Rho Lambda Honor Society (Pan-Hellenic Scholastic), Kappa Delta Epsilon (Professional Education), Kappa Delta Pi (Education Honorary), Kappa Omicron Phi (Home Economics), Phi Eta Sigma (Freshmen Scholastic), Phi Sigma (National Biology), Red Tassel/Mortar Board (Senior Scholastic), National Residence Hall Honorary, Sigma Delta Pi (Hispanic).

Ethnic Interest Groups: Registered foreign interest organizations providing a cultural exchange on campus include: African Students' Association, Black Action and Awareness Committee - East, Black Action and Awareness Committee - Central Campus, Black Action and Awareness Committee - Watterson, Black Action and Awareness Committee West, Black Action and Awareness Committee - South, Black Student Union, Chinese Student Association, The European International Student Association, Indian Student Association, Korean Student Association, Association of Latin-America Students, NAACP (ISU Chapter), Nippon-International Student Association, Student Association of the Republic of China at ISU, Third World Student Association.

Political Interest Organizations: Students' political interests are represented through the following registered groups: ISU College Democrats, College Republicans, Redbird Party, Students for Thompson, Student Association.

Recreation and Sports Clubs: The University provides a Campus Recreation program. This program includes a broad Intramural Program for men and women with com-

petition scheduled in over 50 activities. The Recreation Office schedules supervised facilities such as gyms, pools and tennis courts for student use. Programs including roller skating, pottery, woodworking, and other activities are available. Another exciting option is the Outdoor Program involving checkout of camping, backpacking, and canoeing equipment, as well as weekend trips scheduled for each activity. There are a number of recreation and sport clubs that have membership open to all students. These clubs include: ISU Aviation Club, ISU Equestrian Association, ISU Fencing Club, ISU Hockey Club, ISU Judo Club, ISU Karate Club, Outdoor Program Coordinator Club, Redbird Badminton Club, Men's Rugby Club, Women's Rugby Club, Women's Soccer Club, Trap and Skeet Club, Men's Volleyball Club, ISU White Water Club, ISU Sport Parachute Club, ISU Parks and Recreation Society, ISU Racquetball Club, ISU Scuba Club, ISU Ski Club, ISU Tae Kwon Do Club, ISU Weightlifting Club.

Religious Organizations: Registered groups serving students' religious interests include: Apostolic Christian Bible Study, Baptist Student Union, B'nai B'rith Hillel, Campus Crusade for Christ, CARP, Chi Alpha, Chinese Bible

Study Group, Christian Collegians, Student Christian Fellowship, Church of Christ Campus Ministry, Eckankar of ISU, Inter-Varsity Christian Fellowship, The Navigators, New Hope Campus Outreach, Orthodox Students on Campus, Real Life Fellowship, The Way International-Campus Outreach ISU, Wesley Foundation, Wittenberg Lutheran Center.

Residence Hall Organizations: Each University residence hall has a student government consisting of elected officers and representatives who serve on hall committees and councils. Projects or issues of common interest among the halls are shared through the coordination effort of the Association of Residence Halls. Area residents' organizations include: Atkin-Colby Student Government, Dunn-Barton Resident's Association, Hamilton/Whitten Student Government, Hewett-Manchester Association, Madison-VanBuren Residents' Association, Association of Residence Halls, Tri-Towers Student Association.

Service Organizations: Registered University organizations offering services to the University and community include: Alpha Phi Omega, ISU Circle K, Delta Kappa Delta.

ACADEMIC POLICIES AND SPECIAL ACADEMIC PROGRAMS

Academic Policies and Requirements

The University reserves the right to revise its Academic Policies and Procedures when it is deemed appropriate. Such changes in this catalog affect all students, unless otherwise noted, and take effect May 9, 1983.

University Grading System

Course Grades: Instructors assign a grade in each course for which the student is registered. Responsibility for correcting any error in grading rests with the course instructor. The grade point equivalents are 4 for A, 3 for B, 2 for C, 1 for D, and 0 for all other grades. The 0 value of F and WF are computed in the student's grade point average. The 0 value of grades I, AU, CR, CT, NC, WX, and WP are not computed in the student's grade point average. University grades assigned undergraduate courses are:

A	Excellent
B	Good
C	Satisfactory
D	Poor, But Passing
F	Failing. Assigned to students who are enrolled in a course all semester but who fail to earn a passing grade and to students who cease attending a class without withdrawing officially
I	Incomplete
AU	Audit
CR	Credit. Assigned to students who do satisfactory work in a course which is offered on a Credit/ No Credit basis only
CT	Credit. Assigned to students who earn an A, B, or C grade in a course which they have elected to take under the Credit/No Credit option
NC	No Credit. Assigned to students who do not do satisfactory work in a course which is offered on a Credit/No Credit basis only and to students who do not earn an A, B, or C grade in a course which they have elected to take under the Credit/ No Credit option
WX	Withdrawal. Assigned to students who officially withdraw from a course before the quality of work can be determined and prior to the dates specified in the withdrawal policy
WP	Withdrawal Passing. Assigned to students who officially withdraw from a course and who are doing satisfactory work at the time of withdrawal
WF	Withdrawal Failing. Assigned to students who officially withdraw from a course and who are not doing satisfactory work at the time of withdrawal

Incompletes: An I (Incomplete) will be given to a student who is doing passing work but finds it impossible to complete the work by the end of the term because of a justifiable reason, such as illness. The student must have attended class to within three weeks of the close of the semester or one week of the close of the summer session. An incomplete grade will be changed to a regular grade (A,B,C,D or F) at any time specified by the instructor with the

following stipulation: the student must complete the required work no later than the final class day of the corresponding semester or session of the following academic year or by the time the student graduates (whichever comes first). Exceptions to this policy may be granted by the Assistant Dean of Undergraduate Instruction.

At the time the incomplete is assigned, the student, faculty member, and the department chairperson are required to sign an incomplete removal form. The form will specify the date by which the work must be completed, the grade which will be assigned if the work is not completed by the specified date, and the general nature of the required work. The faculty member will retain the original copy of the form, the student the first carbon, and the chairperson the second carbon.

Auditors: A student may register as an auditor in a class or classes if space is available. An auditor does not participate in the activity of the class, but is expected to attend regularly. An Audit (AU) designation will appear on the student's transcript when the instructor certifies that the student has attended the class on a regular basis. If the student has not attended regularly, a WX will be recorded on the transcript after the instructor has sent a written notification to the Office of Admissions and Records that the student has not attended regularly. To register as an auditor, a student must register for the course and get the instructor's signature on an auditor's permit which can be obtained from the Registration Office. Students must register to audit a course by the tenth day of classes in the semester, with any exception having the approval of the department chairperson in which the course is offered and the Assistant Dean of Undergraduate Instruction. The auditor fee is shown in the section on costs. Students who are registered for 12 or more hours for credit may audit courses without additional fees. Audited courses are considered part of the student's total load.

Credit/No Credit Courses: Certain courses in the University are offered on a Credit/No Credit basis only. In these courses, students receive a grade of CR (credit) or NC (no credit). The offering of a particular course on a Credit/ No Credit basis only must be approved in advance by the Provost.

Credit/No Credit Student Option: An undergraduate student (except a first semester freshman) who is not on scholastic probation may choose to register in some courses under an option that allows the student to be graded on the basis of CT (Credit) or NC (No Credit) rather than on the basis of A, B, C, D, or F grades. This Credit/No Credit (commonly called Pass-Fail) Option is designed to encourage students to enroll in courses they otherwise would not take. Some courses, therefore, including those in a student's major or minor, may not be taken on the Credit/No Credit Option. (An exception is where courses in the student's major or minor field are offered on a Credit/No Credit basis only.) No more than 6 semester hours of work under the Credit/No Credit Option may be taken each semester, with a maximum of 25 semester hours under the Credit/No Credit Option presented for graduation.

tion. Although an entry of CT (credit earned under the Option) or NC (no credit earned under the Option) will be entered on the student's record, these entries are not used in computing the grade point average for the student.

Students who plan to enter graduate or professional schools should exercise caution in taking courses under the Credit/No Credit Student Option. Such students should consult with their academic adviser prior to taking courses on a pass-fail basis. Courses on a pass-fail basis may adversely effect graduate admission opportunities.

A grade of CT is recorded when the grade submitted by the instructor is A, B, or C. A grade of NC is recorded when the grade submitted by the instructor is D or F.

A student electing the Credit/No Credit Student Option should do so as part of the regular registration process. In no case may a student elect the Option later than the tenth day of classes in the semester. Students who have elected the Credit/No Credit Student Option may return to the letter basis of grading prior to the last date for withdrawing from a course.

Course Registration and Withdrawal

Policies

Withdrawal Policy: Dropping a Course or Courses. The following policy applies where a student drops a course or courses, but not all courses in which the student is registered during a particular semester. **Students are advised strongly to make a commitment to complete courses in which they are enrolled whenever possible and not to withdraw from courses after the program change period unless absolutely necessary.** A student may withdraw from a course during the program change period without the withdrawal being indicated on the transcript. After the tenth day of classes in the semester and prior to the end of the sixth week of classes of the semester, the student withdraws from a class by reporting to the Registration Office. A withdrawal form will be completed, signed by the student, and the instructor will be notified of the withdrawal. **The student should keep a copy of this form.** After the sixth week of classes in the semester, a student must meet with the instructor of any course from which the student is planning to withdraw, have a withdrawal form signed by the instructor, **and file the signed withdrawal form with the Registration Office within 24 hours.**

After the tenth day of classes, a student may officially withdraw from a course with a grade of WX at any time prior to the end of the sixth week of classes of the semester (prior to the end of the third week of classes of an eight-week course and prior to a proportionate time in a pre-session or other short course). Between the start of the seventh week and the end of the thirteenth class week (prior to the end of the sixth week of classes of an eight-week course and prior to a proportionate time in a pre-session or other short course), a student may officially withdraw from a course with a grade of WX, WP, or WF as assigned by the instructor. WX is given if the student withdraws before the quality of work can be determined; WP, if the student is passing at the time of withdrawal; and WF, if the student is failing. A grade of WF shall be computed as a failing grade in computing the student's grade point average. A student should consult the *Directory of Classes and Summer Sessions Schedule* for specific withdrawal dates for a given term. Upon the written recommendation of a licensed physician or a clinical psychologist, a student may be granted permission to officially withdraw from a course for medical reasons at a later time than the dates specified. A grade of F will be given to students who withdraw from a

course unofficially by not having a withdrawal slip signed by the course instructor and placed on file in the Registration Office, who register for a course but do not complete course requirements, or who withdraw from a course after the thirteenth week of classes (or comparable date specified above).

In unusual cases, exceptions may be granted by the Assistant Dean of Undergraduate Instruction.

Withdrawal Policy: Dropping all Courses: The following policy applies when a student drops all courses in which the student is enrolled for a particular semester. This is known as *withdrawal from the University*. **Students are advised strongly to complete courses in which they are enrolled whenever possible and not to withdraw from the University unless absolutely necessary to do so.** Prior to the end of thirty (30) calendar days after the first regularly scheduled class day, a student reports to the Office of Admissions and Records to withdraw from the University. After that date, students contemplating withdrawal from the University must meet with the Assistant Dean of Undergraduate Instruction.

If a student's written request to withdraw from the University for substantial reasons is granted by the Assistant Dean of Undergraduate Instruction, all grades will be assigned in the same manner and under the same provisions except that the student is not required to contact his or her instructors. Instead, the instructor of each course assigns a WP, WF, WX or letter grade as appropriate depending on the date and circumstances of withdrawal. If medical or similar substantial reasons make it impossible for the student to follow the usual procedures, a letter signed by the student explaining the situation, with appropriate verification, requesting withdrawal from the University will be sufficient. Whether in person or by mail, the withdrawal is processed by the Assistant Dean of Undergraduate Instruction. Withdrawals made by mail are addressed to the Assistant Dean of Undergraduate Instruction, Illinois State University, Normal, Illinois 61761.

Regardless of the circumstances of withdrawal, the student shall be responsible for returning any laboratory equipment and library materials. The student shall pay for any parking fines and remove the parking decal from any registered vehicle. The student shall contact the Office of Residential Life to obtain clearance from room and board obligations and to arrange for vacating the residence hall room. The student should arrange with the Financial Aid Office to place any scholarship on leave or cancel it and make arrangements for future financial assistance. Arrangements for payment of loans must be made in the Bursar's Office.

A grade of F will be given to students who do not attend their courses but do not officially withdraw before the specified final withdrawal date and to students who register for a course but do not complete course requirements. In unusual cases, exceptions may be granted by the Assistant Dean of Undergraduate Instruction.

Repetition of Courses Policy: A student may repeat a course only once. That is, if a student completes a course, or drops a course after the tenth-day enrollment report, he or she may enroll officially in that course one additional time. When a course has been repeated, both the original and the subsequent grade (A,B,C,D,F, WF) are included in the student's grade point average if the course is acceptable toward graduation. The original grade will not be removed from the student's transcript and the credit hours will count only once toward meeting minimum hourly requirements for graduation. Students who wish to repeat a course must do so at Illinois State University; grades earned

at another college or university may not be used for this purpose. Exceptions to the Repetition of Courses Policy may be granted in unusual circumstances by the Assistant Dean of Undergraduate Instruction.

Course Load Policy: An undergraduate student may carry a maximum of 17 hours each semester. A full-time student usually carries from 15 to 17 hours. A student wishing to carry more than 17 hours in a semester may seek permission to do so from the chairperson of the major department. The granting of this permission will depend on the student's scholastic record. A freshman may not carry over 17 hours during the student's first semester.

A person who holds a full-time position should not take more than six semester hours of work per semester.

A student must have the permission of the Assistant Dean of Undergraduate Instruction to take any work, including extension or correspondence, at another college or university with concurrent registration at Illinois State University.

Class Attendance Policy: The attendance policy of the University is based on two principles: first, students are expected to attend class regularly; and second, students are primarily responsible to the instructor in matters pertaining to class attendance. Every student will be held responsible for class attendance and successful completion of academic work. Attendance regulations are intended to encourage student maturity and are based on the assumption that academic success is the student's primary goal in college.

The University will reasonably accommodate students in circumstances where a religious observance requires absence from class. Students who are unable to attend class or take examinations for religious reasons should consult their instructors in advance about alternative arrangements.

Class Registration Changes: Detailed instructions for registration for courses are published for each semester in a *Directory of Classes* for that semester. There are two ways of registering for courses for the fall or spring semesters: (1) advanced registration conducted during the preceding semester, and (2) the registration period provided just prior to the start of classes each semester. Students are encouraged to register during the advanced registration period because of the wider selection of courses open to them at that time. New freshmen and transfer students may register during Summer Preview and are encouraged to do so because of the wider selection of courses open to them at that time, or they may register just prior to the opening of the semester.

A student who is already registered for a particular semester and desires to change the program before the deadline for doing so should follow the instructions in the *Directory of Classes*.

Academic Requirements

Class Standing: Students in a bachelor's degree program are classified as freshmen, sophomores, juniors, and seniors. A student must have completed 30 semester hours to be classified as a sophomore, 60 hours to be classified as a junior, and 90 hours to be classified as a senior. Students not working toward a degree at Illinois State are listed as Unclassified Students.

Major Field or Fields of Study: Students may select a major field of study at the time of admission unless there are special restrictions for admission. Students who are undecided about a major field are classified as General Students and are encouraged to select a major field of study as soon as possible. The major and minor fields of

study available at Illinois State are described later in the Catalog.

A student may elect to complete the requirements for two majors, both of which may be identified on the student's transcript. When a student double majors, the student indicates only one major for purposes of registration and advisement. The second major is indicated by the student to the Office of Admissions and Records at the time of senior evaluation.

Unless otherwise specified in a particular program, students may use a specific course to meet requirements for a major, second major, minor, and second minor.

Change of Major: A student wishing to enter a major or change majors reports to the Office of Admissions and Records. Permission to enter or change to a given major field may be sought by consulting the chairperson of the department offering the major and obtaining signature approval. Entering majors may be restricted by enrollment or other limitations in some areas. Students should consult the major program descriptions for any admission requirements to a particular major.

Dismissal from Major: A student who is placed on academic probation for the second or any subsequent time will be dropped automatically from his or her major. The student will be classified as a General Student and will receive academic advisement from the Academic Advisement Center. In order to become a major in a department after being dropped, a change of major form must be completed and the student must be accepted by the department in which he or she desires to be a major.

Minor Field or Fields of Study: Students often elect a minor field of study. A student may elect to complete the requirements for two minors, both of which may be identified on the student's transcript. There are no special procedures for admission to most of the minor programs, but students are encouraged to consult with the academic department(s) in which they carry the minor(s) for advisement. Minors are indicated by the student to the Office of Admissions and Records at the time of senior evaluation. Unless otherwise specified in a particular program, students may use a specific course to meet requirements for a major, second major, minor, and second minor.

Grade Point Average: In order to be eligible for graduation, a student must have a minimum grade point average of 2.0 (C) in all courses taken at Illinois State University for which grades of A, B, C, D, F, or WF are assigned. Failures are considered in the total number of semester hours taken in computing the grade point average. The following illustrates the counting of grade points to determine the GPA (Grade Point Average).

Grade Course	Grade	Sem. Hrs. Enrolled	Sem. Hrs. Earned	Sem. Hrs. For GPA	Grade Points
POS 105	D	3	3	3	3
BSC 145	CT	2	2	0	0
COM 110	A	3	3	3	12
MUS 139	I	1	0	0	0
CHE 102	B	3	3	3	9
HPR 130	WX	1	0	0	0
HIS 135	WF	3	0	3	0
THE 150	NC	1	0	0	0
		17	11	12	24

The grade point average is computed by dividing grade points earned by semester hours counted for G.P.A. For the case above, the grade point average is 2.0. Grades of WX, WP, CT, CR, I, and NC do not affect the grade point average. WF grades are counted as equivalent to F grades.

Academic Good Standing: To be in academic good standing, a student must have achieved a minimum cumulative grade point average, depending on the number of semester hours taken, as shown in the following chart:

Semester Hours Taken	Minimum Cumulative Grade Point Average
1 - 30.....	1.80
31 or more.....	2.00

The number of *semester hours taken* includes all college work completed by the student, but only the grades earned at Illinois State University are used in computing the grade point average. Students who do not achieve the minimum grade point average as specified will be placed on academic probation. Satisfactory Progress for Financial Aid purposes is described elsewhere in this Catalog.

Academic Probation: Students who fail to meet the above requirements are placed on academic probation for the following semester or session. At the end of any term when a student goes on probation a second or subsequent time, he or she is automatically dropped from the University. A student denied reinstatement at that time may expect to remain out of school one calendar year before the Reinstatement Committee will act on a request for reinstatement. An error in the record or new evidence of academic capability (for example, excellent grades in a semester's work at another school) will result in a review of a student's case when brought to the attention of the Committee.

Repeated failures to do satisfactory work may result in permanent exclusion from the University. Information about the probation regulations or a student's own probation status may be secured from the Assistant Dean of Undergraduate Instruction.

Catalog Requirements: Students normally use the Catalog in effect at the time they entered the University for meeting graduation requirements. Consult the later section on Catalog and Graduation Requirements for specific regulations and exceptions on catalog requirements for graduation.

Academic Honors

Academic Honors: Dean's Lists: Undergraduate students who meet high academic standards, as established by the College of their major, are included in a Dean's List issued each semester. Eligible students must complete 12 or more semester hours, including all work taken during the semester exclusive of any work taken under the Credit/No Credit option, by the end of the semester in which the Dean's List is issued. Names included on the Dean's List for the Colleges of Applied Science and Technology, Arts and Sciences, Education, and Fine Arts will include those students whose grade point averages place them among the top ten percent of those students majoring within the College. The Dean's List in the College of Business will include only undergraduate students majoring in business who have completed 12 or more semester hours with an overall semester grade point in the top ten percent and an average of at least 3.33 for all courses taken during the semester. Courses completed after the official end of the semester and courses taken with a Credit/No Credit option will not be counted for this purpose. Students whose majors do not place them in one of the five colleges and whose grade point averages are within the top ten percent of the University are identified on the list of the Dean of Instruction.

Degrees with Distinction: A student must have completed at least 50 semester hours at Illinois State University to be eligible for a degree with distinction. Students who have

an accumulated grade point average of 3.90 through 4.00 are graduated *summa cum laude*; those with a GPA of 3.80 through 3.89 are graduated *magna cum laude*; and those with a GPA of 3.65 through 3.79 are graduated *cum laude*. Students who qualify for these degrees with distinction wear an appropriate shoulder loop as part of their academic gown at commencement and their names appear in the commencement program as being awarded degrees with distinction. All grades earned at Illinois State University are counted in computing the grade point average, except those earned during the Spring semester if graduation requirements are completed then. Transcript notations of graduating *cum laude*, *magna cum laude*, and *summa cum laude* are based on the total grade point average, including the final semester.

Academic Honors: Bone Scholars: Several undergraduate students are designated annually as Bone Scholars, in honor of former President Robert G. Bone. The designation of Bone Scholar is the highest academic distinction that can be achieved by undergraduate students at Illinois State University. Bone Scholars are students who combine superior academic records with full personal development through campus and community activities. Nominations to this honor are made by faculty members and selection of new Bone Scholars is conducted by the Honors Program.

Undergraduate Degree Requirements

Undergraduate degrees available at Illinois State University include the Bachelor of Arts, Bachelor of Science, Bachelor of Science in Education, Bachelor of Fine Arts, Bachelor of Music, and Bachelor of Music Education degrees. When applying for graduation, the student indicates the specific degree desired which he or she is qualified to receive. Other requirements are specified for each degree below.

Bachelor of Arts (B.A.) Degree: University Studies requirements; General requirements for graduation; Field or fields of study requirements; 32 semester hours in humanities and social sciences (The Office of Admissions and Records and the Academic Advisement Center may be consulted for specific courses that apply to this 32 hour requirement); and three semesters or equivalent of foreign language, with at least one semester at the level of 115 or higher taken in college, with Foreign Languages classes taught exclusively in English excluded (the Department of Foreign Languages establishes high school and proficiency equivalents). Students for whom English is not their native language can meet their Foreign Language requirement either by taking COM 110 and two English courses or by meeting the requirements in a foreign language other than their first language.

Bachelor of Sciences (B.S.) Degree: University Studies requirements; General requirements for graduation; and Field or fields of study requirements.

Bachelor of Science in Education (B.S. in Ed.) Degree: University Studies requirements; General requirements for graduation; Teacher education approved major; and Professional education requirements.

Bachelor of Fine Arts (B.F.A.) Degree: University Studies requirements; General requirements for graduation; and Art or Theatre field of study requirements for B.F.A. degree.

Bachelor of Music (B.M.) Degree: University Studies requirements; General requirements for graduation; and Music field of study requirements for B.M. degree.

Bachelor of Music Education (B.M.E.) Degree: University Studies requirements; General requirements for gradu-

ation; Music field of study requirements for B.M.E. degree; and Professional Education requirements.

Graduation Requirements

The following graduation requirements apply to all students. **Meeting graduation requirements is the individual responsibility of each student.** The student and adviser should check the student's program of courses frequently to assure that the student is fulfilling the following graduation requirements (all references to hours are to semester credit hours.)

1. Total Hours: The actual hour requirement for an undergraduate degree varies by the program or combination of programs that a student elects. A student must have a minimum of 120 hours of credit acceptable toward graduation. Some courses may not count toward graduation. These restrictions are noted in the course descriptions. There are some curricula or combinations of fields that require additional hours. If all specified requirements are completed with fewer than 120 hours, a student must elect sufficient course work to total at least 120.

2. University Studies: University Studies hours must total at least 48 hours exclusive of courses taken in the student's major department and distributed over eight areas as described in the Catalog. A transfer student who is admitted to the University from a public community college in Illinois and who has completed an Associate Degree in a baccalaureate-oriented sequence shall be considered to have met the University Studies requirement; other transfer students must complete the regular University Studies program. See the University Studies section of the Catalog for specific area requirements.

If a student from an Illinois public community college transfers to Illinois State with six or fewer semester hours remaining to complete a baccalaureate-oriented associate degree, he or she may present evidence of the award of that degree at the completion of the first semester at Illinois State and be considered to have completed the University Studies requirement.

3. Major-Minor Options: Liberal arts or non-teacher education students who are candidates for B.S. or B.A. degrees must complete a major field of study. Completion of a second major, minor, and second minor is optional. Teacher education students who are candidates for a B.S., B.A., or B.S. in Ed. degree must complete professional education requirements and a major approved for teacher education.

4. Senior College Hours: The senior college hours (courses numbered 200 or above) must total at least 42 hours. Coursework transferred from other colleges and universities is not counted as senior college credit if freshmen and sophomores are regularly permitted to enroll in such work. **No credit from two-year colleges may be counted as senior level.**

5. Grade Point Average: Unless otherwise specified in a specific program, the grade point average for all courses taken at Illinois State University must be 2.0 (C) or higher. In addition, the student must have a grade point average of 2.0 (C) or higher in the courses required in the major and the minor if the student has a minor.

6. Removal of Incompletes: Each Incomplete grade (I) must be removed at least six weeks before the Spring commencement or two weeks before August graduation if the course is to be used in meeting graduation requirements.

7. Residence Requirements: Unless otherwise specified in a specific program, the residence requirement is completion of one-half of the last two years (a minimum of 30 hours) at Illinois State University.

8. Constitution Examination: Each student must pass an examination on the Constitution of the United States and the State of Illinois and on the proper use of the American flag. It is given on five different dates throughout the year as listed on the Instructions for Registration for each semester and for the eight-week summer session. A student may also meet this requirement by successful completion of Political Science 105 or by presenting certification of having passed an appropriate examination at another accredited Illinois college or university.

9. Correspondence and Extension Course Limit: A student may not present more than 32 hours of extension and correspondence credit from other institutions for graduation. Of the 32 hours, not more than 16 hours of correspondence credit will be accepted. Illinois State University no longer distinguishes between those courses offered on campus and those offered off campus and does not offer correspondence courses. Therefore, all credit hours earned at Illinois State apply toward graduation unless specifically noted otherwise.

Catalog Requirements

For a student in regular attendance during at least one term of each academic year, the requirements for graduation are those specified in the catalog for the year the student entered the University. If attendance is not continuous, a student must meet the requirements specified in the catalog in effect when the student reenters the University. If such a student continues in the curriculum chosen originally, the credits earned in meeting the requirements under an old program will apply in a revised program. In all instances, the University may adjust graduation requirements to insure that each graduate of a teacher preparation curriculum meets the course requirements for an Illinois Teaching Certificate.

A student who transfers from an Illinois public community college to this University may choose to meet graduation requirements specified in the Illinois State University catalog in effect at the time the student entered the community college if the student had been enrolled in a Baccalaureate Oriented program and if the following requirements are met: (1) attendance was not interrupted, and (2) transfer to Illinois State University must have occurred not later than nine months following attendance at the community college.

Since University programs are continuously evaluated and improved, a student is allowed to graduate under new requirements published while the student is in attendance at the University. A student who changes to new catalog requirements, however, must meet all the requirements in the new catalog.

Senior Evaluation, Application for Graduation, and Commencement

During the early part of a student's senior year, the Office of Admissions and Records will inform the student of the graduation requirements still to be fulfilled. **Student submission of the application for graduation initiates this senior evaluation process.**

In determining specific program requirements (in addition to the general requirements for graduation stated above), a student should consult the following sections of the catalog: (1) the University Studies Requirements; (2) the specific requirements for the major and minor fields of study; and, if the student seeks teacher certification, (3) the University-Wide Teacher Education Program Requirements information provided in the College of Education section of the Catalog.

Each student should apply for graduation at the Office of Admissions and Records on or before the date specified in the *Directory of Classes* and in the University Calendar. The student pays a \$15 graduation fee when applying for graduation, unless the fee is covered by a State Scholarship.

Degrees are conferred and diplomas awarded after the close of each semester and the summer session. Commencement exercises are held once each year in May at the end of the second semester. Undergraduate students completing requirements prior to Commencement as well as those who expect to complete degree requirements at the close of the following summer session may participate in Commencement exercises.

Second Bachelor's Degree

A student who has already received one bachelor's degree from Illinois State University, or from another college or university accredited for baccalaureate degrees by the appropriate regional accrediting association, may receive a second bachelor's degree at Illinois State University. All specified requirements at the time of admission to the program for the second degree must be met, and the program of studies completed for the second degree must include at least 32 hours of coursework taken after the granting of the first degree. At least 24 of the 32 hours offered toward the second degree must be senior college level (courses numbered 200 and above).

Special Academic Programs and Services

Proficiency and Placement Examinations

Students at Illinois State University may receive university credit by examination through the following programs: CLEP General Examinations, Departmental Proficiency Examinations, CLEP Subject Examinations, and the Advanced Placement Program. Students and prospective students are advised to plan their course work and examination attempts carefully because they may not receive credit by examination in a course in which they have been enrolled on the tenth day of classes.

CLEP General Examinations: Illinois State University grants credit by examination toward University Studies for the College Level Examination Program under the following guidelines:

1. A student may receive credit for a maximum of eighteen semester hours credit through CLEP General Examinations.
2. A student will be awarded three semester hours credit toward graduation and University Studies requirements for each scaled subscore of fifty (50) or better on the Humanities, Natural Sciences, or Social Sciences and History General examinations passed. Credit would be awarded as follows:

HUMANITIES

3 hours Fine Arts (Group VI)

and/or 3 hours Literature (Group II)

NATURAL SCIENCES

3 hours Biological Sciences (Group III)

and/or 3 hours Physical Sciences (Group III)

SOCIAL SCIENCES AND HISTORY

3 hours Social Sciences (Group V)

and/or 3 hours History (Group II)

A student must receive a score of fifty (50) on each of the six subtests in order to receive the full eighteen hours of credit. Credit is not available for the English Composition or Mathematics General Examination.

3. A student who desires to take the CLEP General Examinations should do so before enrolling for classes at the University.
4. Credit earned through the CLEP General Examinations shall count toward University Studies and graduation requirements only. A student may not use the CLEP General Examinations to raise grades or remove failures in courses already taken. All credit for CLEP General Examinations shall be considered credit at the 100 level.
5. A student who is awarded credit in one or more areas of the General Examinations should consult with his or her adviser to select other appropriate basic and advanced courses.
6. A student may not receive credit for both an area of the CLEP General Examinations and a Departmental Proficiency Examination related to that area. For example, a student who receives credit for a General Examination in the Fine Arts area may not receive credit for a Departmental Proficiency examination in the Fine Arts area. Also, credit will not be awarded for the General Examination areas in which credit is earned through Advanced Placement Examinations or CLEP Subject Examinations.
7. Students may take the CLEP General Examinations at ISU at times scheduled by the Office of Measurement and Evaluation or any CLEP Open Test Center. A student may contact the Office of Measurement and Evaluation (115 Julian Hall, (309) 438-2135) for further information.

A student who takes the CLEP examinations is responsible for the cost of the examination.

Departmental Proficiency Examinations: Departmental Proficiency examinations are provided in most 100-level and a limited number of 200-level courses. The purposes of the examinations are to allow students to receive credit for knowledge acquired previously and to allow students to enroll in more advanced courses or to add breadth to their academic programs. Proficiency examinations are optional and recommended only for students who are unusually well qualified in the discipline in which the examination is taken. Specific information about the nature of a given examination should be obtained directly from the appropriate departmental office. A description of University policies and procedures relating to proficiency examinations follows:

1. The nature of each proficiency examination shall be determined by the department in which the course is offered. Standards of performance required for receiving credit in a given course also shall be determined by the department offering the course; the level and quality of work required for satisfactory performance on a proficiency examination is equivalent to that required for a grade of C in the course.
2. Academic departments shall provide proficiency examinations in most 100-level courses that are regularly listed in the catalog and the *Directory of Classes*. Students will find a list of courses in which proficiency examinations are offered in the *Directory of Classes*.
3. A description of the nature and content of each proficiency examination should be available in the department offering the examination. Students should contact the appropriate department chairperson for information about a specific examination.
4. Participation in proficiency examinations is open to all students enrolled at Illinois State University; however, students usually may not register nor receive credit for Departmental Proficiency examinations prior to the successful

completion of twelve hours of accredited college or university course work without written approval of the chairperson of the department in which the course is offered.

5. Letter grades will not be assigned for proficiency examinations; therefore, the grade point average will not be affected.

6. Credit earned in proficiency examinations may not be used to raise grades or remove failures in courses in which a student has been enrolled previously.

7. No course credit will be awarded for a proficiency examination which is at a lower level than a course previously taken or one which substantially duplicates the content of a course taken previously.

8. A student may take a proficiency examination only one time.

9. A student may register for only one Departmental Proficiency examination each semester **unless** examinations are approved in writing by the chairpersons of the departments in which the courses are being offered.

10. Handicapped students should notify the appropriate department office of the need for any special accommodations prior to the date of the examination.

11. A student should register for an examination by returning the completed application form from the *Directory of Classes* and the registration fee for examinations to the Office of Measurement and Evaluation, Julian Hall 115.

English Composition Proficiency Option: Students with ACT English scores of 26 (SAT Verbal 600) or above may earn three hours of honors credit for English 101 by doing the following:

A. Earning a grade of C or better in one of the following English courses: 214, 215, 216, 217, 218, 219, 222, 223, 231, 232, 233, 234, 236, 252, 255, 284, 285, 286 **and**

B. completing a semester of tutorials (one hour per week) in the University Writing Center during the semester in which the 200-level course is taken.

Students wishing to take advantage of the Proficiency option should consult the Department of English, the Academic Advisement Center or the Honors Program.

CLEP Subject Examinations: In addition to the opportunities provided by the CLEP General Examinations described above, several departments grant credit by examination in specific subject areas covered by CLEP Subject Examinations. Courses approved for credit under this program are History 123 and 124, Mathematics 115 and 116, Political Science 105, Psychology 111, and Sociology 106. Credit may also be earned and applied towards the requirements in the Medical Technology program for acceptable levels of performance in Clinical Chemistry, Hematology, Immunohematology/Blood Banking, and Microbiology.

The Measurement and Evaluation Service at Illinois State University can provide information about test dates, fees, and passing scores.

Departmental Placement Examinations: Examinations for appropriate course placement are offered by a number of departments. No credit is awarded. Examinations in Foreign Languages or Music may be required of some students. Specific information about the examinations may be obtained from the respective departmental offices. Prior to the date of the examination, handicapped students should make a written request regarding accommodations necessitated by the handicap to the department giving the examination.

Advanced Placement Program: The Advanced Placement Program is sponsored by the College Entrance Board. The examinations are administered at designated high school testing centers. Students who have passed one or

more of the Advanced Placement Examinations with grades of 5, 4, or 3 will be awarded college credit or exemption as indicated below.

A student who has taken Advanced Placement Program examinations should request that his or her scores be sent to the Office of Admissions and Records at Illinois State University. To request grade reports for Advanced Placement Examinations completed, a student should write to Advanced Placement Exams, Box 977-IS, Princeton, N.J. 08541. In making the request, the student should include name, sex, date of birth, the year in which the examination was taken, and the name and identification number of the college to which the grade report should be sent. Illinois State University's identification number is 1319. The College Board currently charges \$4.00 for this service. Information on (1) the particular Advanced Placement Examination, (2) the score required for credit or exemption (in parenthesis), (3) the ISU course or courses for which credit or exemption is allowed, and (4) the total semester credit hours allowed is given below.

American History (5, 4, or 3); HIS 135 and 136; 6 hours.

Art Studio-General (5, 4, or 3); ART 100, 3 hours; ART 103, 3 hours (total 6 hours).

Art Studio-Drawing (5, 4, or 3); ART 104, 3 hours (total 3 hours).

Art-History (5, 4, or 3); ART 150, 3 hours; ART 155, 3 hours; ART 156, 3 hours (total 9 hours).

Biology (5, 4, or 3); BSC 100, 3 hours; BSC 190, 4 hours; BSC 121, 4 hours (total 11 hours).

Chemistry (5 or 4); CHE 140, 5 hours; CHE 141, 5 hours (total 10 hours). (3); CHE 140, 5 hours.

English Lang-Comp (5); ENG 101, 3 hours and ENG 145, 3 hours (total 6 hours). (4) ENG 101, 3 hours.

English Comp-Literature (5); ENG 101, 3 hours and ENG 104, 3 hours or ENG 105, 3 hours (total 6 hours). (4) ENG 104, 3 hours or ENG 105, 3 hours.

European History (5, 4, or 3); HIS 123 and 124; 6 hours.

Foreign Language Examinations

Latin-Vergil (5 or 4); FOR Latin 116, 4 hours. (3); exemption without credit from FOR Latin 116.

French Literature (5 or 4); FOR French 221 and 222, 6 hours. (3); exemption without credit from FOR French 221 and 222.

French Language (5 or 4); FOR French 115 and 116, 8 hours. (3); exemption without credit from FOR French 115 and 116.

German Language (5 or 4); FOR German 115 and 116, 8 hours. (3); exemption without credit from FOR German 115 and 116.

German Literature (5 or 4); FOR German 221 and 222, 6 hours. (3); exemption without credit from FOR German 221 and 222.

Spanish Language (5 or 4); FOR Spanish 115 and 116, 8 hours. (3); exemption without credit from FOR Spanish 115 and 116.

Spanish Literature (5 or 4); FOR Spanish 221 and 222, 6 hours. (3); exemption without credit from FOR Spanish 221 and 222.

Mathematics Examinations

Calculus Test BC (5, 4, or 3); MAT 115 and 116, 8 hours. (2) Dept review.

Calculus Test AB (5); MAT 115 and 116, 8 hours. (4); MAT 115, 4 hours. MAT 116, Dept review. (3); MAT 115, 4 hours.

Music Examinations

Music Listening & Literature (5, 4, or 3); MUS 151, 2 hours; MUS 152, 2 hours (total 4 hours).

Music Theory (5, 4, or 3); MUS 100, 3 hours.

Physics Examinations

Physics Test B (5, 4, or 3); PHY 108 and 109, 10 hours.

Physics Test C, Part I (5, 4, or 3); PHY 110, 5 hours.
 Physics Test C, Part II (5, 4, or 3); PHY 111, 5 hours.

Academic Advisement Center

210 Julian Hall, (309) 438-7604

Undergraduates with fewer than forty-five (45) semester hours, General and Unclassified Students, and Pre-business students (students interested in a business program but not yet formally accepted as declared majors in the College of Business) are assigned to the Academic Advisement Center. Academic advisers assist students in long and short range academic and career planning, provide information regarding University curricula and academic policies, work with students experiencing academic difficulty, refer students to other University services and assist students in the selection of classes. Each summer, entering students receive academic advisement through the Center as part of the Preview ISU program. Once students with declared majors have earned 45 hours, they are assigned a faculty adviser in their major field(s) for advisement at the upper division level.

NOTE: Students at Illinois State are responsible for the academic requirements of the degree(s) they are pursuing. These requirements are stated clearly in the undergraduate catalog under which a student is admitted (or readmitted) to the University. In planning a degree program, students are expected to consult and adhere to the catalog and to raise questions with appropriate University offices if there is anything in the catalog not fully understood.

Illinois State is a complex institution with a great deal to offer its students. The Advisement Center staff is trained to help students take full advantage of the opportunities provided by the University. Students are most likely to achieve their educational and career objectives if they understand what is expected of them and know when and how to take advantage of what is available to them at the University.

Honors Program

The Honors Program provides special educational opportunities for students who by past performance indicate unusually high academic promise. Incoming students are invited into the Honors Program based on rank in high school class, A.C.T. or S.A.T. scores and extracurricular activities. Students who demonstrate exceptional academic promise may apply to the University and to the Honors Program at any time prior to high school graduation for early admission. Students already enrolled in the University may be admitted to the Honors Program based on a minimum overall grade point average of 3.3.

Objectives: The Honors Program seeks to provide highly talented students with special opportunities that will enhance their educational growth. Close personal attention is provided through specialized advisement, small honors sections, individualized programs, research, and independent study opportunities.

Lower Division Honors: The Honors Program offers honors sections in a number of courses in the University Studies program and in other courses. These sections provide an educational experience more appropriate for honors students by providing more comprehensive study of the material in a setting conducive to individual development. Honors sections are often taught seminar style and take advantage of the student's background and ability. In recognition for work in Lower Division Honors, a student may earn the Certificate in University Honors upon comple-

tion of 12 hours of Honors work including an Honors Colloquium. The student must have an "A" or "B" in these courses, a 3.5 grade point average and have completed at least four semesters of work at Illinois State University.

Upper Division Honors: Departmental Honors are currently offered to students majoring in English, History, Political Science, Economics, Biology, Speech Communication, Special Education, Applied Computer Science, Agriculture, Chemistry, Criminal Justice, Mathematics, Physics, Mass Communications, Philosophy, Psychology, Health, Physical Education, Recreation and Dance, Industrial Technology, Finance and Law, Foreign Languages, and Special Education. Students wishing to earn Departmental Honors are required to complete a sequence of work leading to the designation of Honors in their major. Students should consult departmental offices or the Director of Honors for the specific requirements necessary to earn departmental honors in a field.

Individualized Opportunities: Students within the Honors Program may tailor their education to their individual needs in a number of ways through the Faculty Colleague Program. This option allows students to develop an entire academic program suited to their special interests and capabilities. The individualized curriculum may include such opportunities as admission to advanced courses, independent study, research participation, enrollment in certain graduate courses, and modification of departmental course requirements where appropriate.

Opportunities exist to earn Honors credit in many regular courses through In-Course Honors. This activity allows the student to earn Honors credit in a regular course through independent study and in-depth investigation.

Further information about the Honors Program may be obtained by writing the Director of Honors, Illinois State University, Normal, IL 61761.

High Potential Students' Program

The High Potential Students' (HPS) Program has as its objectives the enrollment and retention of economically or educationally disadvantaged students who, without the financial, academic, tutorial, and counseling assistance provided by such a program, would have fewer opportunities for successful college experiences.

While the majority of the program's participants are regularly admissible to the University, a small number of special admissions may be made by the program each year. Criteria for admission of students not regularly admissible include personal interviews, past academic performances, recommendations by school officials, standardized tests, and writing samples. Potential for success is the major determinant for all admissions to the HPS program.

Support services include counseling, academic advising, and referrals to other campus units such as the Writing Center and the Reading Study Skills Center. In addition to coordinating financial aid and work-study and other activities for its students, HPS also offers special credit courses in English and Mathematics for freshman participants whose backgrounds and test performances indicate the need for such courses. Interested persons may obtain further information at the HPS office, 411 West Willow Street (438-7641).

Special Services for Disadvantaged Students

The Special Services for Disadvantaged Students Program, a program supported by Illinois State University and the U.S. Department of Education, was developed to improve students' chances for academic success and retention to

graduation. Participation is limited to 200 economically and educationally disadvantaged students.

A variety of support services, including academic, career, financial, and personal counseling and individual tutoring are provided for program participants. In addition, each student participates in an academic orientation program and works with a Student Academic Assistant to understand academic policies, procedures, and expectations. Students interested in the program may request information from the Special Services Program office at 411 West Willow Street (438-7641).

International Studies

The Office of International Studies provides services for Illinois State students and faculty who study abroad, foreign students, residents of International House, and students participating in the National Student Exchange. It also assists academic departments with intercultural and comparative programs in specialized fields. Further information about the programs listed below can be obtained from the Director of International Studies. An International Studies Center, located in Stevenson Hall, has current information on student travel and study abroad. A library of books, brochures, and other reference materials is available. The Center also serves as a meeting place for students and faculty who are planning trips abroad or have recently returned.

Study Abroad: In keeping with the tradition of a liberal education, Illinois State encourages qualified students to consider studying in another country. The purpose of study abroad is to enable the student to gain a direct understanding of the intellectual and cultural achievements of another culture. In this way, study abroad may contribute toward intelligent citizenship in the world community. Academic programs for a summer session, a semester, or a year abroad are available to Illinois State students.

The University operates four study centers abroad. These centers are located in Salzburg, Austria; Angers and Grenoble, France; and Nagoya, Japan. The center in Salzburg is a joint undertaking with Northern Illinois University. The programs at these centers are designed to be a continuation and enrichment of a student's regular on-campus academic program. Students who are accepted in these programs remain full-time students at Illinois State and all courses offered at the centers abroad are authorized within the ISU curriculum. Thus, students studying at these centers abroad carry a full academic load for a semester or a year and retain full status as regular students at the University. The usual pattern is for at least one regular faculty member from ISU to be in residence at each center, serving as both instructor and counselor. The major part of the teaching, however, is done by instructors from the host university who lecture in English.

In addition, there are opportunities to study in other countries. Through its membership in a consortium of universities for international education, individual arrangements can be made for students who wish to study in countries other than those in which ISU has centers.

Most of the courses offered abroad fall in the University Studies category. No science or math courses are offered overseas; therefore, the sophomore year offers the greatest flexibility for those who wish to study abroad. In some cases it is possible to work out a program of study abroad for the junior year, but this requires careful planning and students should check with their department chairpersons before choosing this option. Anyone interested in study abroad should consult with advisers in the Office of International Studies.

In the summer session there are special opportunities for study and service abroad. Study programs are offered in foreign languages, art, music, special education, history, political science, economics, geography, and sociology. Summer programs of study and service have, in recent years, taken students to Europe, Asia, the Near East, and Latin America.

Foreign Student Advising: The International Studies Office also provides services to all students who are citizens of other countries. The foreign student adviser provides assistance to foreign students who must comply with U.S. Immigration and Naturalization regulations. Other services are coordinating campus and community resources and services available to foreign students and the interpretation of foreign students' backgrounds, needs, and problems to the institution's officials, faculty, and students as well as the community. The adviser assists in matters relating to admissions, personal and academic problems, financial aid, hospitality, housing, and employment. All international students enrolling in the University for the first time should report to the International Studies Center in Stevenson Hall as soon as possible following their arrival on campus.

International House: International House is a coeducational residence and academic program center for American and international students attending Illinois State. The purpose of the House is to promote cultural interaction and international understanding through social and educational programs. This setting provides opportunities to develop friendships and to encourage mutual respect among students of diverse backgrounds and cultures through the experience of living and learning with their contemporaries.

National Student Exchange

In order to make possible an educational experience in cultural and geographic circumstances considerably different from those of Central Illinois, Illinois State University inaugurated the National Student Exchange. Sophomores and juniors with a 2.5 cumulative grade point average may take up to a year's study at any one of numerous public colleges and universities in other states at costs equal to what a student who is a resident of that state would pay. In some cases, scholarship aid may be used. Applications are available between October 1 and March 1.

It is hoped that the exchange of students among institutions will enrich the educational experience of those individuals traveling to distant campuses and those of the host institutions who have a chance to meet and learn from incoming students. Institutions involved in this exchange are Boise State University (Idaho), Bowling Green State University (Ohio), California State College, Bakersfield, California State University, Chico, California State University, Northridge, College of the Virgin Islands, Eastern Montana College, Eastern Oregon State College, Fort Hays State University (Kansas), Georgia State University, Humboldt State University (California), Illinois State University, Indiana University of Pennsylvania, Indiana University-Purdue University at Fort Wayne, Jackson State University (Mississippi), Kearney State College (Nebraska), Montana State University, Moorhead State University (Minnesota), New Mexico State University, North Carolina State University, Northeastern Illinois University, Oakland University (Michigan), Oregon State University, Pittsburg State University (Kansas), Rhode Island College, Rutgers College, Rutgers University (New Jersey), Sonoma State University (California), South Dakota State University, State University College at Buffalo (New York), State University College of Arts and

Science Potsdam, New York, Towson State University (Maryland), Trenton State College (New Jersey), University of Alabama, University of Delaware, University of Georgia, University of Hawaii at Hilo, University of Hawaii at Manoa, University of Idaho, University of Maine at Fort Kent, University of Maryland, University of Massachusetts at Amherst, University of Massachusetts at Boston, University of Montana, University of Nevada, Las Vegas, University of Nevada, Reno, University of New Mexico, University of North Carolina at Charlotte, University of North Dakota, University of Northern Colorado, University of Northern Iowa, University of Oregon, University of South Carolina, University of South Florida, University of Southern Maine, University of Tennessee, Knoxville, University of Utah, University of Wisconsin-Green Bay, University of Wisconsin-River Falls, West Chester State College (Pennsylvania), William Paterson College of New Jersey, Winthrop College (South Carolina). Others are joining the program each year. For more information, contact the International Studies office in Stevenson Hall 140.

Undergraduate Teaching Assistants

Undergraduate Teaching Assistantships (UTA) are available in nearly all departments of the University to junior and senior students who have demonstrated excellence in the discipline and overall scholastic achievement. The purpose of the program is to assist the faculty in the improvement of instruction and provide a valuable learning opportunity to the assistants. The responsibilities and nature of the UTA assignments are determined by the departments and colleges. The maximum financial compensation is \$495 a semester, or \$990 for the academic year. Some departments provide the opportunity for credit to be earned by the UTA under a General Offerings course (291 Seminar: Undergraduate Teaching Assistants). Three hours is the maximum number of hours of this credit that may be allowed for graduation. UTA application forms are available in the departmental and college offices.

Speech and Hearing Clinic

Students having speech and hearing problems may receive evaluation and therapy at the Speech and Hearing Clinic, located in Fairchild Hall 211. The clinic also serves as a laboratory for students majoring in speech pathology and audiology. Hearing services include hearing tests, lip reading, auditory training, and advice concerning hearing aids.

Mathematics Assistance Center

The Mathematics Assistance Center located in 330 Stevenson Hall provides diagnostic and supportive assistance to students enrolled in courses in mathematics and related disciplines. Intensive remedial assistance is not provided. Interested students and faculty should contact the Mathematics Department (438-8781) or the Division of Student Academic Services for more information.

Reading Study Skills Center

The Reading Study Skills Service offers free, non-credit instruction in a variety of reading and study skills to ISU students. Mini-course offerings include speed reading and study skills (time management, text reading, note taking, and test taking). Individualized instruction also is available on a short term basis in a variety of skills including vocabulary and spelling improvement. Intensive remedial instruction is not available. Interested students should

come to the RSSC, 210 Schroeder (438-7100), to arrange appointments for individualized assistance.

University Writing Center

The Department of English invites students and faculty to visit the Writing Center located in Stevenson 410. Students will find tutors willing to help with many kinds of writing problems. A variety of services are available to students; however, intensive remedial assistance is not provided. Faculty will find teaching materials, individualized instruction packets, and style manuals for their use both in teaching and in research. Students are invited to drop in, and faculty are asked to refer students by using the forms available in departmental offices. For further information contact: Dr. Janice Neuleib, Director of the Writing Center (438-7766), the Department of English, or the Division of Student Academic Services.

Media Services

Media Services is part of the Faculty and Instructional Development Program which supports faculty teaching and professional development needs.

Media Services supports the University's academic program by providing educational media support for instruction. The production and service units of Media Services are described below:

Media Distribution Unit: All types of audiovisual equipment and prepared materials such as films and film strips are circulated for on-campus use through this unit.

Graphic/Audio Production Unit: Assistance is provided to faculty in this area for planning, designing, scripting, story boarding, editing, and refining all types of materials for audiovisual productions. Tape recording, duplication, narration, multi-image and slide synchronization programs are also available through this unit.

Learning Resource Center: The center houses facilities for self-paced instructional packages on the operation of audiovisual equipment for faculty and student use, a graphic production area where students and faculty can produce visuals, a videocassette playback area, and an audio production area where students and faculty can make audio tapes and tape/slide presentations.

Television Unit: A closed-circuit television cable system links more than 35 classroom buildings and dormitories along with a direct connection to Tele-Cable, the community Cablevision company serving Bloomington-Normal. The Television Unit has four instructional channels along with five channels from Peoria and Champaign-Urbana. Media Services' Television Unit provides video support for courses. All functions of Media Services except the television studio are located in the Educational Media Center.

Research Services and Grants

The University's Office of Research Services and Grants is an information and coordinating center for faculty and students who wish to secure financial support from sponsoring agencies to conduct research projects, training programs, and public service activities. Outside funded projects constitute an important part of the University's involvement in research and development activities. This office encourages and facilitates faculty efforts in research and community service programs. It provides help in locating appropriate funding sources for new academic endeavors, assists in developing and processing research proposals, and acts as a liaison between the University and funding agencies.

Services for the Handicapped

The purpose of the Office of Services for the Handicapped is to work with handicapped and disabled individuals to facilitate their successful integration into the University community as students, faculty, and staff. Handicapped or disabled refers to those individuals with sensory impairments, physical impairments, learning disabilities, emotional problems, drug abuse problems, in addition to spinal cord injury, cerebral palsy, arthritis, alcoholism, multiple sclerosis, spina bifida, cardio-vascular problems, asthma, epilepsy, sickle cell anemia, and many others.

Services provided include, but are not limited to: readers, interpreters, wheelchair pushers, tutors, braillists, note takers, and maintenance of a list of persons interested in being employed as attendants. Handicapped students requiring an attendant are responsible for securing their own attendant. This office will meet with the handicapped student and attendant to draw up the necessary contract. Services are provided to aid mobility impaired with special needs in regard to registration of classes and the class schedule. Most services are provided through extensive use of volunteers from the University and community. Persons interested in volunteering should contact the Office of Services for the Handicapped.

It is important that handicapped students make an early contact with the Office of Services for the Handicapped to facilitate their successful integration into the University community. All information regarding a person and his/her handicap is confidential information. Students who have a handicap or disability are encouraged to contact the Coordinator of Services for the Handicapped, Hovey Hall 207, voice 309/438-5853 or TTY 309/438-8620 (Telephone for the Deaf) as early as possible.

Alumni Services and Development

Alumni Services: The Alumni Program at Illinois State University operates on the basis that, when a person first enrolls at the University, a lifetime association has begun. The longest portion of this association will be as an alumnus. Therefore, the University, through the Alumni Office, will offer services and activities to all ISU alumni for the remainder of their lives. These include campus events such as Homecoming, Spring Awards Ceremony, the National Assembly, Alumni Appreciation Night, Madrigal Dinners, Shakespeare Summer Festival, class and departmental reunions, special conferences and seminars, and other appropriate programs.

Illinois State University keeps in contact with alumni throughout Illinois, the United States, and internationally, through area-meetings which feature a variety of informative and entertaining programs. Communications are maintained with alumni through quarterly mailings of the *Alumni News*. Additional mailings are sent announcing special events and activities.

The Alumni Services Office, located in Rambo House, is the campus headquarters for alumni. The official records for the growing numbers of alumni, which exceed 65,000, are maintained there. The ISU Alumni Association is the organization to which all alumni are identified. The Alumni Board of Directors serves as the liaison body representing all alumni with the University.

The Parents Association: The parents of current students at Illinois State University have the opportunity for active involvement in the University through the Parents Association. All parents are automatically members of the Association.

The Association's activities and programs are coordinated through the Alumni Services Office in Rambo House. A

Parents Advisory Board, composed of parents representing various geographic areas, serves as the liaison body between the University and all parents. The Board helps with planning Parents Day, assists University officials with recruiting, fund raising, and other public relations programs, and conveys the suggestions and concerns of parents to the University administration.

Development Office: The Development Office is located in Rambo House and is responsible for creating and carrying out a long-range program for expanding the amount of voluntary financial and other support for the University from alumni, parents, faculty, staff, interested businesses and industries, and other friends of the University. Such voluntary support is used to provide scholarships, student loans, and research grants, equipment, and special purpose academic projects.

Because the University must use State funds primarily for additional classrooms and laboratories and for salaries, the support which the Office of Development can generate provides the margin of excellence which enables Illinois State to continue to be a creative and progressive force in higher education.

The Development Office, in actively seeking voluntary support for the University, is carrying on the tradition established by the University's founders whose solicitation of gifts of money and land made the establishment of the University possible.

ISU Foundation: The Illinois State University Foundation is a non-profit corporation chartered by the State of Illinois for the sole purpose of serving Illinois State University. It does so by inviting, receiving, holding, investing, and administering gifts, grants, and loans to support and enhance the regular programs of the University. In some instances new programs are initiated from these funds.

The Foundation encourages prospective donors to give financial assistance on an undesignated basis which enables the University to achieve greater efficiency by assigning these resources where most needed. However, gifts and grants may be designated for specific purposes which serve the overall interests of the University.

Bequests, charitable remainder trusts, and other planned and deferred gifts are processed through the Foundation. All business matters and policies for the ISU Foundation are administered by an elected Board of Directors composed of alumni and other friends of the University.

All gifts made to the ISU Foundation are tax deductible as provided by law. Further information about the Foundation may be obtained through the Office of Alumni Services and Development, Rambo House, at ISU.

Professional Practice

Professional Practice (Cooperative Education and Internship) is a university-wide program that provides students with an opportunity to earn academic credit while gaining professionally supervised work experience in business, industry, government, and other agencies and organizations. COOPERATIVE EDUCATION, one form of Professional Practice, is an educational pattern which permits students either alternating or parallel periods of campus study and paid educationally related work experiences. INTERNSHIP, the other form of Professional Practice, is usually unpaid and typically occurs only once during a student's undergraduate career.

Students interested in enrolling in Professional Practice (Internship or Cooperative Education) should contact their academic unit/department coordinator or the University Professional Practice Office (Hovey 401) early in their undergraduate career so that credit-generating work experiences can be arranged well in advance of placement.

Preparation for Graduate and Professional Study

Requirements for admission to professional study vary according to the profession as well as among the schools offering study for the professions. For this reason, a student planning to enter a professional school should seek specific admission information from the professional school he or she plans to attend. Preparation for admission to a professional school consists of: (1) a broad educational experience (a function of the University Studies program); (2) courses which meet the specific admission requirements of the professional school the student plans to attend; and (3) major and minor subjects which allow for concentrated study in a field of interest and provide an alternative career direction if that becomes desirable.

Graduate Study at Illinois State

Students interested in graduate study at Illinois State University should consult the *Graduate Catalog* for admission requirements and programs available. Further information may also be obtained from department offices and the Graduate School office in Hovey Hall. Illinois State offers a comprehensive range of master's degree programs and doctoral level programs in Art, Biological Sciences, Curriculum and Instruction, Economics, Educational Administration, English, History, Mathematics, and Special Education.

Health Professions

Preprofessional programs for health related professional colleges usually imply a major in one of the departments in the College of Arts and Sciences. Majors in Biological Sciences or Chemistry are usually elected because several specific preprofessional course requirements can be applied toward a major in these fields. However, a major in any one of a number of other departments in the College is appropriate for many students who have a specific career goal in mind. Speech Pathology and Audiology, Mathematics, Psychology, Sociology, Physics, Economics, and Foreign Languages are several examples of academic areas which have application to specialties within the health professions.

Minimum admission requirements to colleges of Medicine, Dentistry, and Veterinary Medicine are discussed below. Further information about admission procedures to these and other health related professional colleges can be obtained by contacting Dr. John Frehn in the Department of Biological Sciences.

Medicine: Admission policies of individual medical colleges are set forth in *Medical School Admissions Requirements - United States and Canada*. Orders for this book should be addressed to:

Association of American Medical Colleges
One DuPont Circle, N.W.
Washington, D.C. 20036
Price: \$7.50 postpaid

Specific course requirements of medical schools in the State of Illinois can be met by taking the following courses:

Chemistry 140, 141, 230, 231, 232, 233.
Biological Sciences 190, 295.
Physics 108, 109.

Mathematics 115, 116 are recommended.

Other specific course requirements are usually met by completion of the University Studies program. It should be understood that a careful selection of University Studies

and elective courses beyond the specific admission requirements can make the applicant more competitive. Although a few students are accepted for enrollment in medical college after completion of 90 semester hours, they are distinct exceptions. Most students should anticipate the completion of the requirements for a bachelor's degree with the following approximate timetable:

1. Completion of specific course requirements by the end of the junior year.
2. Medical College Admission Test taken in April of the junior year.
3. Medical College application process begun in August preceding senior year.

Dentistry: Admission policies of individual dental schools are set forth in *Admission Requirements of U.S. and Canadian Dental Schools*. Orders for this book should be addressed to:

American Association of Dental Schools
1675 Massachusetts Avenue, N.W.
Washington, D.C. 20036
Price: \$7.50 postpaid

With the completion of the University Studies program, the following courses would meet the minimum specific course requirements for Illinois dental schools:

Chemistry 140, 141, 230, 231, 232, 233.
Biological Sciences 190, 295.
Physics 108, 109.

Most students enter dental school after three or four years of preprofessional studies. The minimum requirement for admission to dental schools in the State of Illinois is two years of college even though most such applicants are unsuccessful. It is therefore advised that students anticipate at least a three-year program with the following timetable:

1. Completion of specific course requirements by the end of sophomore year.
2. Dental Admission Test taken in April of the sophomore year or October of the junior year.
3. Dental college application process begun in the fall of the junior year.

Veterinary Medicine: Illinois residents find it exceedingly difficult to gain admission to colleges of veterinary medicine outside the state. Students should therefore direct their attentions largely to the admission policies of the University of Illinois College of Veterinary Medicine.

Specific course requirements: three semesters of biology including genetics, five semesters of chemistry including biochemistry, two semesters of physics, one semester of English, four semesters of humanities and social sciences, and one semester of animal science. Some two-year students are accepted, but the majority of successful candidates have three or four years of preprofessional study. The student is therefore advised to plan his program for completion of the requirements for admission to veterinary college by the end of the sophomore year. A four-year program leading to a bachelor's degree should be anticipated in the event that early application to veterinary college is not successful.

Nursing

No major in nursing exists at Illinois State University. Students wishing to pursue the BSN degree may complete the prescribed pre-nursing courses at ISU and then seek admission to the Mennonite College of Nursing in Bloomington. Students should apply for the Mennonite program after their Freshman year. Admission to the nursing program is competitive. For further information, contact the Academic Advisement Center.

Engineering

Illinois State University offers the courses ordinarily required for the first two years of an engineering curriculum. Students enroll as majors in Physics while at Illinois State. The strong sequential nature of engineering curricula requires that appropriate course selections be made in the first two years if a sound program is to be developed. Students should contact Dr. John Crew in the ISU Department of Physics for help in planning an appropriate plan of study and for more information concerning the preengineering program.

Illinois State University has an affiliation with the College of Engineering at the University of Illinois whereby students may earn a bachelor's degree from Illinois State University and a bachelor's degree in engineering from the University of Illinois at Urbana in a five-year program. Students generally spend the first three years at Illinois State University and the final two to two and one-half years at the University of Illinois. Increasing numbers of engineering graduates enter leadership roles in industry and government and require a greater understanding of the impact of technology on society. The five-year program encourages a student to develop a broad understanding of the social sciences and humanities and excellence in technical studies. Students interested in this program are urged to contact Dr. John Crew in the ISU Department of Physics early in their undergraduate careers.

Law

Most law schools do not require any particular undergraduate major. A committee of the Association of American Law Schools has recommended that the pre-law student keep in mind three basic objectives in planning an undergraduate program: education for articulate oral and written expression; education for greater understanding of human institutions and values; education to develop the skills of conceptual analysis. The committee has emphasized the need for a broad, liberal education which develops the student's intellectual interests rather than an education directed too pointedly toward later professional training and practice. Students may consult with the University's pre-law adviser, Dr. Thomas Eimermann, Department of Political Science, for assistance in selecting appropriate majors and valuable electives.

Students planning to apply for admission to law school should plan to take the Law School Admissions Test either in June between their junior and senior years, or October of

their senior year. Information about the exact dates and procedures for the test can also be obtained from Dr. Eimermann in the Department of Political Science.

Social Work

The profession of social work recognizes three academic levels of preparation for practice. The first level is that provided by Illinois State University's undergraduate Social Work major. Students completing this major will hold a baccalaureate degree qualifying them for the beginning level of professional practice upon graduation (see the Comprehensive Major in Social Work).

A secondary objective of the Illinois State University Social Work major is to prepare students for advanced study at the second or graduate level of preparation. Graduates of this advanced program receive a Master of Social Work (M.S.W.) degree which is considered the equivalent of a terminal degree in the profession.

For those students desiring eventually to teach, to conduct independent research, or to attain important administrative positions in the professional field, a growing number of graduate schools offer a third level of preparation which is the Doctor of Social Work (D.S.W.) or Ph.D in Social Work degree.

Students interested in graduate social work education, either immediately upon graduation from Illinois State University or after a period of professional practice, are urged to consult their social work adviser in the Department of Sociology, Anthropology and Social Work.

The Illinois State University Social Work Program is accredited by the Council on Social Work Education. This accreditation provides advantages to students seeking employment and graduate education in social work.

Teaching

Undergraduate students interested in preparing for teaching careers in the public schools should consult the College of Education section of the Catalog or contact the Office of Clinical Experiences and Certification Processes, 310 DeGarmo Hall, for information about admission to the teacher education programs of the University and about meeting general education, field of study, professional education, and certification requirements. Students interested in preparing for teaching careers in colleges and universities should consult academic advisers in the discipline in which they plan to teach for information concerning appropriate graduate degree preparation.

UNIVERSITY STUDIES PROGRAM

The University Studies Program provides a core of fundamental knowledge, skill and understanding. The content of University Studies courses is important to the educated layperson rather than to the specialist in the field, although this does not mean that all courses in the program are introductory or non-technical in nature. The program is designed to meet each of the following goals:

- to provide personal enrichment.
 - to offer a systematic design for further learning.
 - to be broad in scope rather than focused on a narrow portion of a discipline.
 - to reflect major values and ideas and to offer the opportunity to examine such values and ideas.
 - to assure a breadth of knowledge and an understanding of the basic processes of disciplined inquiry that society might reasonably expect from a college graduate.
- Because of the limited number of hours required in each group, a student may have only one exposure to a discipline or area. For this reason, care should be taken to select courses that will ensure breadth within as well as across disciplines and areas of study.

General Requirements

Each student seeking a bachelor's degree must satisfy the requirements of the University Studies program. A transfer student who has completed an associate degree based on a baccalaureate-oriented sequence who is admitted to the University from a public community college in Illinois shall be considered to have attained junior standing and to have met his or her University Studies requirements. All other students must meet the minimum requirements for each group in the program-- a total of 48 hours exclusive of courses in a student's major department. Some students may wish to complete the requirements through the Individual University Studies Program described below. The Proficiency and Placement Examinations section of this Catalog describes how a student may meet some of the University Studies requirements through the College Level Examination Program (CLEP) and other proficiency examinations.

Other Special Considerations

General Students: Students who are pursuing a baccalaureate degree but have not yet declared a major are advised that when they do identify a major, courses in their major department do not count toward the University Studies requirements.

Change of Major: Students who change majors should pay particular attention to the policy regarding the exclusion of courses for University Studies from a major department.

Double Majors: The exclusion of courses from a major department applies only to the declared or first major—not to the second or undeclared major.

Minors: Any University Studies course may be used to meet the requirements of a minor.

Contract Major: Any University Studies course may be used to meet the 48 hour requirement without regard for courses from a major department for students who are pursuing a Contract Major, Arts and Sciences Contract Major, or Social Sciences Major.

Teacher Certification: Group requirements in the Uni-

versity Studies program have been designed to meet the general education requirements for teacher certification in Illinois. See the supplementary brochure mentioned below for more information.

International Studies: Credit in University Studies may be earned through the Study Abroad program. Information is available from the Director of International Studies.

University Studies Groups

Group 1: Communication Studies (9 hours): Study related to the collection, preparation, and presentation of ideas and information directed toward achieving personal skill in written and oral communication. English 101 is required.

Communication

- 110 Fundamentals of Speech Communication
- 123 Interpersonal Communication
- 125 Argumentation
- 223 Small Group Processes

English

- 101 Language and Composition I (Required of all students)
- 145 Language and Composition II

Foreign Languages

- 111 First-Year French (Part I)
- 112 First-Year French (Part II)
- 111 First-Year German (Part I)
- 112 First-Year German (Part II)
- 111 First-Year Classical Greek (Part I)
- 112 First-Year Classical Greek (Part II)
- 111 First-Year Italian (Part I)
- 112 First-Year Italian (Part II)
- 111 First-Year Latin (Part I)
- 112 First-Year Latin (Part II)
- 111 First-Year Russian (Part I)
- 112 First-Year Russian (Part II)
- 111 First-Year Spanish (Part I)
- 112 First-Year Spanish (Part II)
- 115 Second-Year French (Part I)
- 116 Second-Year French (Part II)
- 115 Second-Year German (Part I)
- 116 Second-Year German (Part II)
- 115 Intermediate Latin
- 116 Vergil
- 115 Second-Year Russian (Part I)
- 116 Second-Year Russian (Part II)
- 115 Second-Year Spanish (Part I)
- 116 Second-Year Spanish (Part II)

Group 2: Humanistic Studies (9 hours): Study of history (the study of past events, especially those concerned with particular nations, periods, and individuals), literature (the study of native and foreign culture through the exploration of the literature of that culture), and philosophy (the study of values, ethics, and general principles which provide rational explanations) directed toward acquiring basic knowledge in the humanities. Courses must be selected from at least two departments.

English

- 104 Introduction to Literature-Poetry and Drama
- 105 Introduction to Literature-Prose Fiction

- 106 Introduction to Literature-Literary Themes and Topics
- 107 Literature and the Movies
- 110 Masterpieces of English Literature
- 122 Introduction to Shakespeare
- 130 Masterpieces of American Literature
- 150 Masterpieces of World Literature: to 1350
- 160 Women in Literature
- 165 Afro-American Literature
- 250 Literature of The Bible I
- 251 Literature of The Bible II

Foreign Languages

- 105 Classical Mythology
- 211 German Novelle
- 216 German Drama
- 221 Survey of French Literature I
- 221 Survey of Spanish Literature I
- 222 Survey of Spanish Literature II
- 222 Survey of French Literature II
- 223 Survey of French Literature III
- 242 Survey of Spanish-American Literature

History

- 121 History of Western Civilization to 1300
- 123 Early Modern Europe
- 124 Modern Europe Since 1789
- 135 History of the United States to 1865
- 136 History of the United States since 1865
- 137 The American Experience
- 220 Ancient History: Greece
- 221 Ancient History: Rome
- 228 Europe in the Nineteenth Century: 1815-1914
- 235 French History to the Revolution

Interdisciplinary Studies

- 100 Humanities I: European Civilization to 1700 (3 hrs.)
- 101 Humanities II: European Civilization since 1700 (3 hrs.)
- 103 English Heritage
- 104 British Civilization

Philosophy

- 101 Basic Issues in Philosophy
- 120 Philosophy of Religion
- 138 Moral and Social Values
- 232 Ethics
- 240 Political Philosophy
- 242 Philosophy of Law
- 254 Ancient and Medieval Philosophy
- 255 Modern Philosophy

Theatre

- 151 History of the Theatre in Western Culture

Group 3: Natural Science Studies (6 hours): Study of biological sciences (the study of life and living matter in all forms, especially with regard to the origin, growth, reproduction, and structure of life forms) and the physical sciences (the study of structure, properties, origin, and energy relations of matter apart from the phenomena of life) directed toward an understanding of and an ability to apply the scientific method to natural phenomena.

Biological Sciences

- 100 Introduction to Biological Sciences
- 121 General Botany
- 160 Introduction Microbiology
- 170 Genetics and Society
- 181 Functional Anatomy of Man
- 182 Functional Anatomy of Man
- 185 Introduction to Evolution
- 190 General Zoology

- 195 Introduction to Oceanography
- 199 Animal Behavior
- 204 Natural Science

Chemistry

- 102 Science and Modern Man
- 104 Elements of Chemistry
- 110 Fundamentals of Chemistry
- 112 Fundamental Chemistry Laboratory
- 140 General Chemistry I
- 141 General Chemistry II

Geography-Geology

- 100 Earth Science
- 105 Introduction to Geology I
- 107 Introduction to Geology II
- 110 Weather
- 195 Introduction to Oceanography

Physics

- 100 Energy and Environment
- 101 Introduction to Astronomy
- 105 Fundamentals of Physics
- 108 General Physics I
- 109 General Physics II
- 110 Physics I
- 111 Physics II

Sociology, Anthropology, and Social Work

- 182 Introduction to Physical Anthropology

Group 4: Quantitative and Logical Studies (3 hours):

Study of mathematics (the study of numbers and space configurations and their operations, measurement, and the relationships in both the abstract form of pure mathematics and the practical form of applied mathematics), computer science (the study and understanding of the logical organization and transformation of information directed toward the development of the problem-solving skills necessary in a computer environment), and logic (study of principles of valid reasoning and correct inference) directed toward the understanding of basic computational skills and the ability to think logically.

Applied Computer Science

- 164 Fortran Programming
- 168 Structured Problem Solving and the Computer

Mathematics

- 103 Foundation Topics in Mathematics
- 105 Applications of Elementary Mathematics
- 106 World of Mathematics
- 120 Finite Mathematics for Business and Social Sciences
- 121 Introduction to Calculus for Business and Social Sciences
- 145 Calculus I
- 146 Calculus II
- 151 Structure of Number Systems I
- 164 Fortran Programming
- 210 Symbolic Logic I

Philosophy

- 110 Thinking Logically
- 210 Symbolic Logic I

Group 5: Social Science and Psychological Studies (9 hours):

Study of the social sciences of anthropology, economics, human geography, political science, and sociology (the study of aspects of past and present activities, conduct, interactions, and organizations of humans) and the study of psychology (the study of mental phenomena, especially those associated with behavior and problems of adjustment to the environment) directed toward an understanding of and an ability to apply the scientific method to

human activity. Courses must be selected from at least two departments.

Economics

- 100 Principles of Economics I
- 101 Principles of Economics II

Geography-Geology

- 135 World Geography
- 150 Economic Geography
- 205 Conservation and Natural Resources

Political Science

- 105 American Government and Politics
- 141 Comparative European Government
- 151 Introduction to International Relations
- 232 Politics and Public Policy
- 254 Introduction to Global Issues

Psychology

- 111 General Psychology
- 112 Child and Adolescent Development
- 131 Social Psychology
- 232 Personality

Sociology, Anthropology, and Social Work

- 106 Introduction to Sociology
- 107 Social Problems
- 131 Social Psychology
- 180 Introduction to Cultural Anthropology
- 261 The Community
- 267 Population
- 268 Sociology and Religion

Group 6: Aesthetic Studies (3 hours): Study of the fine and applied arts having to do with the creation and application of diverse modes of communication, ideas, and emotions by means of visual and nonvisual representations and symbols toward developing aesthetic understanding and appreciation.

Art

- 100 Introductory Art Workshop
- 150 Art Appreciation
- 155 Survey of Art I
- 156 Survey of Art II
- 250 Arts and the Modern World
- 257 Survey of Art III

Health, Physical Education, Recreation, and Dance

- 123 Modern Dance I

Interdisciplinary Studies

- 100 Humanities I: European Civilization to 1700 (2 hrs.)
- 101 Humanities II: European Civilization since 1700 (2 hrs.)

Music

- 100 Introduction to Music Theory
- 151 Survey of Music Literature
- 153 Black Music I
- 250 Arts and the Modern World

Theatre

- 150 Introduction to the Theatre
- 170 Introduction to Film Art
- 250 Arts and the Modern World

Group 7: Contemporary Life Studies (6 hours): Study of the applied arts of agriculture (the production of food and the management of natural fiber plant and animal resources), business and management (organization, operation, administration, and control of private and public organizations), Criminal Justice Sciences (the study of the criminal justice system), education (instruction and training

within and outside educational organizations), health and physical education (maintenance and restoration of physical and mental health), home economics (the study of the reciprocal relations of family to its natural and man-made resources and environments), technology (practical application of basic scientific knowledge to the design, production, and operation of systems for human control of the natural environment), and other appropriate applied studies directed toward development and understanding of the use of liberal studies in applied areas in order to deal creatively and realistically with personal, community, national, and international concerns.

Agriculture

- 150 Introduction to Plant Science
- 170 Introduction to Animal Science

Applied Computer Science

- 140 Introduction to the Computer World

Biological Sciences

- 111 Plants and Civilization
- 145 Hygiene and the Biology of Man
- 202 Ecology of Man

Business Education and Administrative Services

- 100 Business and its Environment
- 330 Decision-making for Consumers

Communication

- 140 Introduction to the Computer-World

Criminal Justice Sciences

- 101 Introduction to Criminal Justice Sciences

Curriculum and Instruction

- 110 Introduction to Multicultural Education

Foreign Languages

- 108 German for Business

Health, Physical Education, Recreation, and Dance

- 113 Fitness and Conditioning
- 180 First Aid

Health Sciences

- 100 Introduction to the Health Community
- 155 Man and Environment: A Health Perspective
- 194 Healthful Family Living
- 196 Drugs and Lifestyles

Home Economics

- 106 Nutrition
- 131 Courtship and Marriage
- 132 Home Management in Contemporary Life
- 330 Decision-making for Consumers

Industrial Technology

- 171 Principles of Accident Prevention
- 208 Industrial Technology Systems
- 308 Man and Technology

Interdisciplinary Studies

- 120 Women Today

Philosophy

- 139 Business Ethics

Sociology, Anthropology, and Social Work

- 170 Survey of Social Work and Social Welfare

Speech Pathology and Audiology

- 112 Survey of Speech and Hearing Disorders
- 115 Introduction to Human Verbal Development
- 120 Sound and Man

Group 8: Nonwestern Cultures and Traditions (3 hours): Study of some aspect of a culture other than one's own directed not only toward a better understanding of the

cultural complexity of a shrinking and increasingly interdependent world but also toward gaining a new perspective of Western culture. (Courses in this group must be concerned with the cultures and traditions of one or more of the following geographic areas: Africa and neighboring islands [not in the Mediterranean Sea]; Caribbean Islands with nonwestern cultures; Central America; China, Mongolia, Japan, Korea [East Asia]; Taiwan; India, Pakistan, and neighboring countries; Mexico; Middle East; Pacific Islands [U.S. Administration]; Philippines and islands of Indonesia; Pre-contact cultures of Americas, Australia, or New Zealand; South America; Southeastern Asia [Burma, Cambodia, Laos, Thailand, Vietnam, and others])

Agriculture

100 Agriculture of Developing Countries

Art

189.14 Oriental Art

Business Education and Administrative Services

345 Business in a Multicultural Environment

Geography-Geology

250 Africa

255 Asia

History

- I25 History of Asian Civilization
- I26 History of the Middle East and Africa
- I27 Latin America
- 263 Modern Mexico
- 271 Islamic Civilization
- 275 History of Japanese Civilization

Philosophy

207 Oriental Philosophy

Political Science

- I45 Introduction to Nonwestern Politics
- 246 African Politics
- 247 Politics of the Middle East
- 347 Latin American Politics

Sociology, Anthropology, and Social Work

- 184 Cultures of the World
- 272 North American Indians
- 284 The Anthropology of Native American Art

Theatre

289.17 Survey of Nonwestern Film

Individualized University Studies Program

Students who wish to pursue the Individualized University Studies (IUS) program must apply for and be admitted to the program. The application must include a statement of the reasons a student's general education objectives cannot be met under the regular University Studies program. The Plan of Study should constitute a coherent, total program of University Studies and should meet or exceed the goals of the regular program. In developing the individual plan, the student and the adviser should review all previous educational experiences of the student (not just college courses) to assure that either prior experience or the projected plan provides a distribution of coursework that matches the minimum hour requirements in each group. Courses are not limited to those approved for the regular University Studies program; however, all courses selected must be general education courses as opposed to vocational or professional courses. Program requirements are as follows:

1. Applications will be accepted only from students who have completed fewer than 25 semester hours of undergraduate coursework. Applications should be forwarded to the Director of Honors and must carry the signature of a professional adviser in the Office of Academic Advisement, the Honors Office, or a faculty member from the student's major department indicating that he or she agrees to the Plan of Study and will serve as the student's IUS adviser until the plan has been completed.
2. The Plan of Study must include a minimum of 48 semester hours, exclusive of courses taken in the student's major department. Projected courses in the Plan of Study are subject to later modification only with advance approval of the student's adviser. (The Director of Honors should be informed in writing of all changes in the original Plan of Study.)
3. It is the student's responsibility to ensure that all prerequisites or requirements for majors are met whether or not the courses are included in the IUS Plan of Study.
4. Students in teacher education programs need to plan their IUS program to meet state certification requirements. Please confer with personnel in the Office of Clinical Experiences and Certification Processes regarding current requirements for teacher education students.
5. Questions about the program should be directed to the Director of Honors.

UNIVERSITY-WIDE PROGRAMS AND COURSES

Fields of Study and Degrees Available

The University offers a wide range of academic programs from bachelor's degrees through master's and doctoral degrees. Programs and degrees are available in the following fields of study:

Accounting: B.S., M.S.
 Agribusiness: B.S.
 Agriculture: B.S. and cooperative master's program with University of Illinois.
 Anthropology: B.A., B.S.
 Applied Computer Science: B.S.
 Art: B.A., B.S., B.F.A., M.A., M.S., M.F.A., Ed.D.
 Arts and Sciences: (See Contract Major)
 Biological Sciences: B.A., B.S., M.S., Ph.D.
 Business Administration: B.S., M.B.A.
 Business Education: B.A., B.S., B.S. in Ed., M.A., M.S.
 Chemistry: B.A., B.S., M.S.
 Consumer Education (Business Education undergraduate minor).
 Contract Major (and minor): B.A., B.S.
 Criminal Justice Sciences: B.A., B.S., M.A., M.S.
 Counselor Education: M.A., M.S., M.S. in Ed.
 Curriculum and Instruction: Ed.D.
 Dance: B.A., B.S., B.S. in Ed.
 Early Childhood Education: B.A., B.S., B.S. in Ed.
 Economics: B.A., B.S., M.A., M.S., D.A.
 Educational Administration: M.A., M.S., M.S. in Ed., C.A.S., Ed.D., Ph.D.
 Elementary Education: B.A., B.S., B.S. in Ed., M.A., M.S., M.S. in Ed.
 English: B.A., B.S., M.A., M.S., D.A.
 Environmental Health: B.S.
 Ethnic and Cultural Studies (undergraduate minor).
 Finance: B.S.
 Foreign Language: M.A. and undergraduate majors in French, German, Russian Studies, and Spanish.
 French: B.A., B.S.
 Geography: B.A., B.S., M.A., M.S.
 Geology: B.A., B.S.
 German: B.A.
 Health and Physical Education: M.A., M.S.
 Health Education: B.A., B.S., B.S. in Ed.
 History: B.A., B.S., M.A., M.S., D.A.
 Home Economics: B.A., B.S., B.S. in Ed., M.A., M.S.
 Home Economics Education: B.A., B.S., B.S. in Ed.
 Industrial Education: B.S., B.S. in Ed.
 Industrial Technology: B.S., M.A., M.S.
 Instructional Media: M.S., M.S. in Ed., and undergraduate minor.
 Journalism (undergraduate minor).
 Junior High/Middle School Education: B.A., B.S., B.S. in Ed.
 Latin American Studies (undergraduate minor).
 Legal Studies (undergraduate minor).
 Library Science: B.A., B.S.
 Management: B.S.
 Marketing: B.S.

Mass Communication: B.A., B.S.
 Mathematics: B.A., B.S., M.A., M.S., D.A.
 Medical Record Administration: B.S.
 Medical Technology: B.S.
 Music: B.A., B.M., B.M. Ed., B.S., M.A., M.M., M.M. Ed., M.S.
 Office Administration: B.S.
 Philosophy: B.A., B.S.
 Physical Education: B.A., B.S., B.S. in Ed.
 Physics: B.S.
 Political Science: B.A., B.S., M.A., M.S.
 Psychology: B.A., B.S., M.A., M.S.
 Public Relations (undergraduate minor).
 Reading: M.S. in Ed. and undergraduate minor.
 Recreation and Park Administration: B.S.
 Russian Studies: B.A.
 Safety: B.S.
 School Psychology: M.A., M.S., M.S. in Ed.
 Secondary Education: M.S. in Ed.
 Social Sciences: B.A., B.S.
 Social Work: B.A., B.S.
 Sociology: B.A., B.S., M.A., M.S.
 Spanish: B.A., B.S.
 Special Education: B.A., B.S., B.S. in Ed., M.A., M.S., and M.S. in Ed., Ed.D.
 Speech Communication: B.A., B.S., M.A., M.S.
 Speech Pathology-Audiology: B.A., B.S., M.A., M.S.
 Supervision: M.A., M.S., M.S. in Ed.
 Teaching English to Speakers of Other Languages (undergraduate minor).
 Theatre: B.A., B.S., B.F.A., M.A., M.S., M.F.A.
 Western European Studies: M.A.
 Writing (Undergraduate minor).

Program and Course Explanations

Major and Minor Program Descriptions

Each undergraduate program available at Illinois State University is listed below including majors, comprehensive majors, and minors. A **major** is designed so that a student ordinarily would combine it with a minor. A **comprehensive major** is designed to be more inclusive, and the student would not ordinarily combine it with a minor. Two general items of information are provided for each program: (1) the degrees which are offered for students who major in the program, and (2) the department or office in the University a student should contact for further information about the academic major or minor. Subdivisions of majors are of two types; (1) a **sequence** is a subdivision of a major in which there are specific curriculum requirements, and (2) a **concentration** is a subdivision of a major which is provided for advisement purposes only (there are not specific curriculum requirements in a concentration). Where two or more sequences are identified under a major, the student selects one of these sequences. A **minor** is a combination of courses, not to exceed 24 hours, that provides a cohesive introduction to an area of study. Teacher

education programs are identified always as EDUCATION e.g. AGRICULTURE EDUCATION SEQUENCE. All references to hours are to semester hours.

Course Information

The University operates on the semester plan. The credit value of all courses is stated in terms of semester hours. Ordinarily, a semester hour is assigned for a 50-minute class meeting per week for the semester; therefore, a course valued at three semester hours generally meets three periods weekly. In laboratory courses, at least two 50-minute periods per week are ordinarily required for each semester hour of credit.

A seminar consists of advanced students meeting regularly under the guidance of a professor in which each student conducts original research and exchanges information, problems, and results through informal lectures, reports, and discussions.

Course Levels: Each course bears a distinguishing number for identification and indication of its academic level. The numbering system is as follows:

Course Levels

- 100-199 Lower division undergraduate courses, primarily for freshmen and sophomores.
- 200-299 Upper division undergraduate courses, primarily for juniors and seniors. A student normally should have completed at least 45 semester hours before enrolling in a course at this level.
- 300-399 Advanced undergraduate courses. Open to juniors, seniors, and graduate students. A student normally should have completed at least 75 semester hours before enrolling in a course at this level.
- 400-499 Graduate courses. None are listed herein; see the Graduate Catalog. Courses at this level are for graduate students. In exceptional instances, a senior may receive permission to enroll for undergraduate credit in a course at this level. Such permission is granted only upon the recommendation of the student's adviser with agreement of the chairperson of the department offering the course.
- 500-599 Courses limited to advanced graduate or doctoral students.

Course Descriptions

The following information is given for each course: course number (3 or 5 digits preceding the title); course title; credit value in semester hours; and F for Fall and S for Spring to indicate the semester for which a course is planned as an offering during the 1983-84 academic year. **The University, however, may cancel or add scheduled course offerings after publication of this Catalog depending upon the adequacy of enrollment and availability of faculty.** Following the above information, any prerequisites, restrictions on enrollment, and any special considerations are noted in italics. **A course prerequisite is knowledge or experience a student is required (req) or recommended (rec) to have prior to enrolling in a course.** Example:

102 MUSIC THEORY AND HISTORY 6

MUS 101 or cons Theory Coord req. Formerly MUSIC THEORY AND LITERATURE.

Continuation of analysis techniques and skills building; concentration on the music history and literature of the 17th and 18th centuries.

The course number, 102, indicates that the course is primarily for freshmen and sophomores. The digit 6, following the title, indicates the credit value in semester hours. S indicates that the course is to be offered during the Spring semester. The italicized lines under the course title indicate the required background for enrolling in the course. In the example given, a student must have passed Music 101 or have consent of the coordinator of Music Theory courses prior to enrollment in 102. The title of the course in previous catalogs is indicated by the *Formerly* statement. A brief description of the course is provided in the paragraph following the prerequisites.

If the course were approved for University Studies, the letters US followed by the group number would be included in the course title, for example, US-1, or US-8. Additional information about the course is available in the respective department office.

Common Abbreviations

Departmental Abbreviations

The following abbreviations for departmental offerings are used both in the program requirement descriptions and in the course descriptions throughout the Catalog. They are also identical with those used in the *Directory of Classes*.

ACC	Accounting
AGR	Agriculture
ACS	Applied Computer Science
ART	Art
BSC	Biological Sciences
BEA	Business Education and Administrative Services
CHE	Chemistry
COM	Communication
CJS	Criminal Justice Sciences
C&I	Curriculum and Instruction
ECO	Economics
EAF	Educational Administration and Foundations
ENG	English
FAL	Finance and Law
FOR	Foreign Languages
GEO	Geography-Geology
HPR	Health, Physical Education, Recreation, and Dance
HSC	Health Sciences
HIS	History
HEC	Home Economics
IDS	Interdisciplinary Studies
IT	Industrial Technology
MAM	Management and Marketing
MAT	Mathematics
MUS	Music
PHI	Philosophy
PHY	Physics
POS	Political Science
PSY	Psychology
SAS	Sociology, Anthropology, and Social Work
SED	Specialized Educational Development
PAS	Speech Pathology-Audiology
THE	Theatre

Course Information Abbreviations

May be repeated indicates that a course may be taken for credit more than once if different content is planned; however, there may be a maximum amount of credit specified for the course.

Variable credit courses. If a course leads to differing number of hours, a student should plan with the adviser the number of hours to be sought.

Conc reg req (or rec) means that concurrent registration in two courses is required (or recommended).

Incl Clin Exp. indicates that certain clinical experiences in teacher education are required in the course.

Cons inst means consent of the instructor.

Cons dept chair means consent of the chairperson of the department offering the course.

Not for credit maj min means that the credit from this course may not be applied to the major or minor program requirements.

Not for credit if had (course) means that credit from this course is not applicable to graduation requirements if credit has been earned previously in the course identified.

Materials charge optional indicates that certain supplementary materials must be provided for the course.

Faculty Information

Faculty whose names appear in the department faculty lists were teaching at the University in the fall of 1982. Because of sabbatical leaves, temporary assignments, research projects, and other reasons, **not all of these faculty will be teaching in the period covered by this catalog.**

CONTRACT MAJOR AND MINOR

Program Coordinator: Office of the Provost, 404 Hovey Hall.

Contract Major and Minor Programs

Degrees Offered: B.A., B.S. Further Information: Office of the Provost. The Arts and Sciences Contract Major and Comprehensive Major requirements are described under the College of Arts and Sciences degree programs.

The individualized contract major and minor allow for liberal arts programs which cannot be accommodated by existing, regular majors and minors. Admission requirements are:

1. Admission to the major or minor may be requested after the completion of 15 semester hours of coursework and before the completion of 90 semester hours. Students who have completed more than 90 semester hours may not apply for a Contract Major or Minor.
2. An overall grade point average of 2.5 at the time of application is required.
3. At least one-half of the coursework distributed among two or more departments in the proposed program must commence after the proposal has been approved.
4. No more than one-sixth of the coursework in either the major or minor requirements may be transferred from another accredited institution of higher education.
5. All applicants must be in good standing in a declared regular major. The Contract Major usually may be used only as a second or auxiliary major. Exceptions to this policy may be granted with the approval of the Program Coordinator and the Contract Major Committee.
6. A proposed plan of study must be approved by a faculty adviser and the Contract Major Committee. Application forms are available in the Office of the Provost. It is the applicant's responsibility to select an appropriate faculty adviser.
7. All minor changes in the approved plan of study must be authorized in advance by the Program Coordinator. Requests for changes in more than one-sixth of the approved program constitute a new proposal and must be

resubmitted to the Contract Major Committee subject to all of the restrictions of an initial application.

8. Applications will be accepted only from the beginning of a semester to the end of the mid-semester break of each regular semester of the academic year.

CONTRACT MAJOR

- 36 hours required.
- Approved plan of study with courses from at least two academic departments.

CONTRACT MINOR

- 18 hours required.
- Approved plan of study with courses from at least two academic departments.

ETHNIC AND CULTURAL STUDIES MINOR

No major offered. Further information: Assistant Provost for Undergraduate Instruction, Hovey 413.

NOTE: The study of ethnic groups not listed below may be arranged through the contract minor program. Students interested in pursuing work in this area should contact the Assistant Provost for Undergraduate Instruction.

ETHNIC AND CULTURAL STUDIES

- A minimum of 22 hours representing eight courses as indicated from Groups I, II, and III; at least four courses must be above the 100 level; no more than three courses may be from one department. A professional practice experience approved by the student's minor adviser and the appropriate department may be used as one course in Group I and/or Group II. An independent study course approved by the student's minor adviser and processed through the regular procedure may be used as one course in Group I and/or Group II.

Group I - Ethnic Origins

Students must complete three courses from Group I, representing at least two departments. Group I represents the origins of minority populations in the United States. The emphasis is on the culture, history and the experience of the area from which present-day United States' minorities come, and on the Native American population before the arrival of the immigrants.

Black Americans: Art 277, GEO 250; HIS 389 (History of the Sub Saharan Africa); POS 246.

Native Americans: Art 373; SAS 280, 283, 284.

Asian Americans: GEO 255; HIS 125, 373, 375; PHI 207; POS 345.

Hispanic Americans: FOR 217.15, 218.15, 221.15, 242.15, 304.15, 335.15; GEO 230; HIS 127, 263; POS 347.

Group II - The Experience of Minority Populations in the United States

Students must complete three courses from Group II, representing at least two departments. Group II represents the experience of minority populations after arriving in the United States, and of the Native American population after the arrival of the whites. The focus is on the historical, cultural, political, and social experience of the group as a minority population in a largely white-European dominated society.

Black Americans: ART 278; COM 175; ENG 165; HIS 257, 258, 289 (Afro-American Experience); IDS 105; MUS 153, 154;

POS 223; SAS 289 (Social Work and the Afro-American); THE 154.

Hispanic Americans: C&I 334; FOR 218.15; HIS 254.

Native Americans: SAS 272.

Oriental Americans:

General Courses: ART 242; C&I 232, 312; CJS 303; PAS 389 (Oral Language of Dialect and Bilingualism).

Group III - Ethnicity

Students must complete two courses from Group III, representing at least two departments. Group III focuses on the concept of ethnicity in a more theoretical way. It attempts to generalize from minority experiences.

Courses: C&I 110; HIS 289 (Immigrant History); SAS 264, 281, 366.

Women's Studies

— A minimum of 18 hours or total of 24 hours from the following courses: COR 339; IDS 120, 300, 390, 391, 398; ENG 160, 360; HSC 191; HIS 250; IT 163; PHI 246; POS 390; PSY 123, 305; SAS 123, 264, 341, 342, 366. A minimum of 18 hours is required in the above courses or appropriate 189, 289, and 389 courses. If the student elects fewer than 24 hours from this list of courses, the remainder must be selected from the list of courses that apply to the Ethnic and Cultural Studies minor. Courses included in the minor must be approved by the Coordinator of Women's Studies, Dr. Patricia Chesebro, Department of Psychology.

UNIVERSITY-WIDE COURSES

With the exception of Professional Practice (198, 298, 398) and Student Teaching (399), these courses may be offered by any department of the University. Specific departmental offerings will be listed by topic or area in the *Class Schedule* available each semester. Student Teaching (399) for all available areas is listed separately in the *Directory of Classes*; Professional Practice (198, 298, 398) for all available areas is listed by department in the *Class Schedule*.

189, 289, 389 SELECTED STUDIES 1-6

Experimental and interdepartmental courses providing content not offered within the framework of courses approved for inclusion in the Undergraduate Catalog. Descriptions of the courses offered each semester are provided in the back pages of the *Directory of Classes* booklets.

193, 293, 393 WORKSHOP 1-6

Max of six hrs may be applied toward graduation.

Workshop opportunities are provided for the purpose of permitting students to work on special problems not covered in any one course offered by the University. Topics for investigation by workshop participants are limited to areas in which the University is able to provide adequate workshop staff. Description of the courses offered each semester are provided in the back pages of the *Directory of Classes* booklets.

198, 298, 398 PROFESSIONAL PRACTICE 1-16

Cons. dept chair. Max of sixteen hrs may be applied toward graduation. For undergraduate credit only.

Supervised work experiences in local, state, national, and international businesses, agencies, institutions, and organizations which are planned, administered, and supervised

at the departmental level. University-wide coordination is provided through the Office of Professional Practice or through the Office of Clinical Experiences if the experience is in an educational agency or institution.

287 INDEPENDENT STUDY 1-6

*Max of six hrs may be applied toward graduation.
Cons dept chair., permission of supervisor.*

Intensive work in a special area of the student's interest. Each individual project is to culminate in a comprehensive written report or examination. Open only to students who are not on academic probation and who have demonstrated an ability to profit from independent study.

291 SEMINAR: UNDERGRADUATE TEACHING ASSISTANTS 1-3

Official designation as an Undergraduate Teaching Assistant (UTA). Departmental permission.

Supervised examination of issues related to the Undergraduate Teaching Experience. Seminar requires time beyond the UTA work experience. Three hours maximum credit may be applied toward graduation.

299 INDEPENDENT HONOR STUDY 1-6

Open only to students who have achieved superior academic records and who have demonstrated an ability to profit from independent study. Max of six hrs may be applied toward graduation. Cons inst, dept chair, and dir of Honors.

Intensive work in a special area of the student's major or minor. Each individual project is to culminate in a comprehensive written report or examination.

397 INSTITUTE 1-9

Federal and state-sponsored institutes or similar short-term programs requiring treatment of subject matter of a special nature or for special groups.

399 STUDENT TEACHING 1-10 F.S (C&I 253 for Elementary Education majors or C&I 263 for Early Childhood Education majors.)

High School teaching (6-12): PSY 215 or C&I 210 and C&I 200; 4 hours (General Methods and Teaching), Departmental Special Methods, and a minimum of 100 clock hours of approved pre-student teaching clinical experiences.

Special Areas (K-12): PSY 215 or C&I 210 and C&I 200; 4 hours (General Methods and Teaching), Departmental Special Methods, and a minimum of 100 clock hours of approved pre-student teaching clinical experiences in K-12 sites.

Junior High/Middle School (K-9): C&I 390, minimum of 100 hours of approved pre-student teaching clinical experiences, completion of Field of Study requirements prerequisite for student teaching in areas of concentration.

Elementary Education (K-9): C&I 252, minimum of 100 clock hours of approved pre-student teaching clinical experiences.

Special Education (K-12): Completion of Characteristics and Methods courses appropriate to each sequence: Learning and Behaviorally Disordered, PSY 347 and SED 322; Hearing Impaired, SED 353, 354, 355, 359; Mentally Handicapped-Educable, SED 343, 346; Mentally Handicapped-Trainable, SED 343, 345; Physically Handicapped, BSC 385, SED 349 and 245 or SED 349 and 431; Visually Handicapped, SED 350 and BSC 382; SED 351, 352, 356. All sequences require the completion of a minimum of 100 clock hours of approved pre-student teaching clinical experiences.

Approval of the dept chair and the Dir of the Office of Clinical Experiences and Certification Processes.

Fifteen semester hours of coursework or equivalent at Illinois State University.

Other requirements as listed in the University-Wide Teacher Education Program Requirements section of this catalog.

Directing the learning of pupils; participating in school and community activities; assuming full responsibility for a group of learners under the supervision of an expert teacher. Assignments are made on the basis of the student's area of specialization. High school student teaching assignments include work in special methods in the subjects taught. The student's transcript indicates the area in which student teaching was completed.

INTERDISCIPLINARY STUDIES

100 HUMANITIES I: EUROPEAN CIVILIZATION TO 1700 5 US-2(3hrs).US-6(2hrs) F

An interdisciplinary course examining the relationships of European history, literature, art, and music from ancient times to the 18th century.

101 HUMANITIES II: EUROPEAN CIVILIZATION SINCE 1700 5 US-2(3hrs).US-6(2hrs) S

An interdisciplinary course examining the relationships of European history, literature, art, and music from the 19th century to the present.

102 HONORS COLLOQUIUM 3 S

May be repeated once for credit if topic is different.

Interdisciplinary, for students in Honors Program. Weekly sessions presented by one or more specialists on the topic explore a semester theme.

103 ENGLISH HERITAGE 4 US-2 F

An interdisciplinary survey of English civilization from the later Middle Ages to the middle of the eighteenth century.

104 BRITISH CIVILIZATION 4 US-2 S

An interdisciplinary survey of British civilization from the middle of the eighteenth century to the present.

105 BLACKS AND WHITES: A STUDY OF INTERRACIAL DYNAMICS 3 F.S

Cons inst.

Racially balanced experiential and theoretical course for students wishing to increase awareness and understanding and to improve black/white communication.

106 CAREER CHOICE 1 F.S

Rec freshman only.

Introduction to theory of career decision making. Laboratory in the application of skills and strategies to individual career choices.

120 WOMEN TODAY 3 US-7 F.S

Introduction to the concerns and problems of women in today's society. Historical roots and viable alternatives to the present culture will be discussed.

187 IUS INDEPENDENT STUDY 1-3

Only for students pursuing the Independent University Studies option who wish to undertake independent study projects on an interdepartmental and off-campus basis.

202 ADVANCED HONORS COLLOQUIUM 3 S

In standing or cons Dir Honors req. May be repeated once if topic is different.

Weekly sessions presented by a specialist dealing with a semester's topic for advanced students in the Honor's program.

222 NATIONAL STUDENT EXCHANGE 1-16 F.S

National Student Exchange Program study up to year at another university; eligible if sophomore, junior, G.P.A. 2.5.

285 HONORS UNDERGRADUATE RESEARCH I 1-3 F.S

Cons Dir Honors req. May not be repeated.

For Honors students who wish to participate in an undergraduate research program.

286 HONORS UNDERGRADUATE RESEARCH II 1-3 F.S

IDS 285 req. May not be repeated.

For Honors students who wish to continue their participation in an undergraduate research program.

287 IUS INDEPENDENT STUDY 1-3 F.S

Only for students pursuing the Independent University Studies option who wish to undertake independent study projects on an interdepartmental or off-campus basis.

300 WOMEN AND RELIGION: CATHOLIC, PROTESTANT AND JEW 2-3 S

Undergraduate credit only.

An analysis of the status of Catholic, Protestant, and Jewish women. Emphasis on women in religion today, but includes historical perspectives through selected religious writing. A research paper or project is completed for 3 hours credit.

390 INTERDISCIPLINARY RESEARCH IN WOMEN'S STUDIES 1-6 F.S

Proposal signed by two faculty advisers from different disciplines and approved by Coord. of Women's Studies req prior to enrollment.

391 WOMEN'S STUDY SEMINAR 1-3 Summer

May be repeated. Max 6 hrs.

Detailed study of current selected topics.

398 PROFESSIONAL PRACTICE: INTERNSHIP IN WOMEN'S STUDIES 1-12 F.S.Summer

6 hrs of Women's Studies crses and cons Women's Studies coord req. May be repeated. Max 16 hrs.

Supervised work experience in local, state, national, or international business, agencies, institutions, or organizations focusing on women's issues.

COLLEGE OF APPLIED SCIENCE AND TECHNOLOGY

Dean: Anita H. Webb-Lupo, 145 Turner Hall.

The Departments of Agriculture; Applied Computer Science; Criminal Justice Sciences; Health, Physical Education, Recreation and Dance; Health Sciences; Home Economics; Industrial Technology; Military Science constitute the College of Applied Science and Technology. Undergraduate and graduate programs of the College are designed to prepare students for professional and/or technical positions in education, government, business and industry.

AGRICULTURE (AGR)

150 Turner

Chairperson: Reginald D. Henry.

Faculty: Professors: Bristol, Culver, Fuess, Henry, Moore, Woods. Associate Professor: Balbach, Chrudimsky, Whitacre. Assistant Professors: Townsend, Walker, Winter. Adjunct Faculty: Butz, Turner.

Agribusiness Program

Degree Offered: B.S.

COMPREHENSIVE AGRIBUSINESS MAJOR

— 55 hours required, including 36 hours in Agriculture and 19 hours in the College of Business and/or Department of Economics.

— Required courses: AGR 110, 130, 150, 170; ECO 100, 101; MAT 120.

The student must complete a minimum of 12 semester hours in agricultural economics courses selected from AGR 213, 214, 215, 216, 310, 314, 316, 318, 319, 320, and a minimum of 19 hours in the College of Business and/or Department of Economics, which includes ECO 100 and 101. AGR 295 and 396 do not count toward this major. Non-business majors who desire to elect more than 25 percent (30 credits) of their course work in business must meet all College of Business requirements for graduation. These students should register for additional courses only in person and with the written permission of the College of Business adviser.

Horticulture Sequence: 55 hours required, including 36 hours in Agriculture and 19 hours in the College of Business and/or Department of Economics. Required courses: AGR 110, 130, 150 or BSC 121, 157; ECO 100, 101; ACC 131; FAL 210; MAT 120; 5 hours of Chemistry (CHE 110 and 112 or 140); 15 hours in horticulture science courses including AGR 252 with remainder selected from among AGR 160, 253, 254, 255, 352, 353, 355, 356 and 389 (Horticulture Therapy); 7 hours of AGR electives. AGR 295 and 396 do not count toward this sequence. Recommended electives are ACC 166, ART 103 and ACS courses.

Agriculture Programs

Degree Offered: B.S.

COMPREHENSIVE AGRICULTURE MAJOR

Production Agriculture Sequence: 55 hours in Agriculture required. Required courses: AGR 110, 130, 150, 157, 170; BSC 100 or 121 or 190; CHE 110 and 112, or CHE 140. Required hours in agriculture courses: 11 in agronomy, 8 in agricultural economics, 13 in animal science, 6 in agricultural mechanics, 17 in agriculture electives. AGR 295 and 396 do not count toward this sequence.

Agricultural Science Sequence: 55 hours required, including 36 hours in Agriculture and 19 hours in biological sciences, chemistry, physics, or mathematics. Required courses: AGR 110, 130, 150, 170. The student must complete at least 20 hours in either animal science or agronomy. A minimum of 19 hours in biological sciences, chemistry, physics, or mathematics, which include BSC 121 or 190 and 10 hours of chemistry. AGR 295 and 396 do not count toward this sequence.

Agriculture Education Sequence 55 hours in Agriculture required. Required courses: AGR 110, 130, 150, 170, 252, 295, 396; BSC 100 or 121 or 190; CHE 110 and 112, or CHE 140. In addition, required hours are: 28 agriculture electives; C&I 200.01 and 200.02 or 216; C&I 200.03 or 215; C&I 200.04 and AGR 399. Program leads to certification: Secondary 6-12.

Honors in Agriculture: The Department offers honors work in Agriculture to highly qualified juniors and seniors who will pursue an individualized program of study. The honors program enables the superior student to reinforce guided private study in agricultural topics of the student's own choosing with seminar-style research. Students interested in participating in the Department's honors program may secure further information by contacting the chairperson of the Department of Agriculture. The Department also offers in-course honors work in all its courses for students enrolled in the University Honors Program or in any departmental honors program. In-course honors work is offered at the discretion of the instructor.

MAJOR IN AGRICULTURE

— 36 hours in Agriculture required.

— Required courses: AGR 110, 130, 150, 170; BSC 100 or 121 or 190; CHE 110 and 112, or CHE 140.

— In addition, at least one course in each of three of the specialized areas of agricultural economics, agricultural mechanics, agronomy, and animal science.

MINOR IN AGRICULTURE

— 24 hours in Agriculture required.

— Required courses: AGR 110, 130, 150, 170.

Agriculture Courses

In meeting program requirements in Agriculture, the student should note that the courses are considered in areas, as follows:

General courses: 100, 101, 102, 103, 107, 172, 302, 303, 398. Agricultural Economics: 110, 213, 214, 215, 216, 310, 314, 316, 318, 319, 320.

Agricultural Education: 190, 295, 396.
 Agricultural Mechanics: 130, 231, 232, 234, 235, 240, 340, 345.
 Agronomy: 150, 157, 250, 251, 252, 258, 259, 272, 289 (Vegetable Crop Production), 352, 355, 357, 360, 389 (Physical Properties of soil.)
 Animal Science: 170, 171, 272, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 288, 290, 372, 373, 374, 375.
 Horticulture Science: 150, 157, 160 252, 253, 254, 255, 352, 353, 355, 356.

100 AGRICULTURE OF DEVELOPING COUNTRIES 2 US-8 F.S

Creative approaches to understanding the role of agriculture in developing countries. Analysis of agricultural problems, policies and processes.

101 MAN AND FOOD 3 F.S

Fundamental knowledge concerning the role of food in the life of man and its significance for the past, present and future.

102 LANDSCAPING AND MAN 3 F.S

Not for credit maj.

Basic knowledge and appreciation of landscaping and its importance to man in the past, present, and future.

103 HOME VEGETABLE PRODUCTION 2 F.S

A survey of the principles and practices of vegetable production. Crop selection, soil fertility, weed and disease control, and management of individual crops are discussed.

107 AGRICULTURE PRACTICUM 1-3 F.S

Maj only, approved application. Course is offered on a credit/no credit basis only.

A course designed to give each student experience in basic agriculture operations. Min 45 hrs experience/hr credit.

110 INTRODUCTORY AGRICULTURAL ECONOMICS 3 F.S

Fundamental principles of economics, applied to agriculture, agriculture finance, prices, taxation, marketing and land use.

130 INTRODUCTION TO AGRICULTURAL MECHANICS 3 F.S

Lecture and laboratory.

Place of mechanics in agriculture. Examples, problems, discussions and laboratory exercises in present and future mechanics applications.

150 INTRODUCTION TO PLANT SCIENCE 4 US-7 F.S

Fundamentals of plant science; importance, classification, distribution and production practices of the major crops of the world.

157 SOIL SCIENCE 4 F.S

CHE 110 and 112 or equiv req. Lecture and laboratory.

Origin and formation, physical and chemical properties, moisture relationships, liming and fertilizing soils. Chemical and physical tests of soils.

160 GREENHOUSE MANAGEMENT 3 F.S

Lectures and greenhouse practices. Materials charge optional.

Home and commercial greenhouse construction, operation and maintenance. Growing media, temperature and light factors. Irrigation, fertilization, growth regulations and pest control programs.

170 INTRODUCTION TO ANIMAL SCIENCE 4 US-7 F.S

Lecture and laboratory.

Breeding, selection, genetics, nutrition, physiology and production of farm animals. Fundamentals of animal science.

171 LIVESTOCK FEEDING PRINCIPLES 3 F.S

AGR 170 req.

Classes of feeds, nutrients, their functions in the animal body, choice of feedstuffs and balancing of rations.

172 COMPANION ANIMAL MANAGEMENT 2 F

Anatomy-physiology, nutrition, health and disease, behavior, selection, breeds, kennel management, and obedience training of companion animals. Major emphasis on dogs and cats.

190 INTRODUCTION TO AGRICULTURAL EDUCATION 2 F.S

Introduction to agricultural teaching profession; overview of the total agricultural program; philosophical base of education process; teaching special need students.

213 FARM MANAGEMENT 3 F.S

Factors of production, such as equipment, labor distribution, cropping systems, and soils; organization and operation; types of farming.

214 AGRICULTURE MARKETING 3 F.S

Markets, price-making forces, reasons for existing practices, marketing services, and cooperative marketing.

215 AGRIBUSINESS OPERATIONS 2 F.S

Procedures and methods of profitable operations used by agricultural business; lectures and discussions pertaining to the world of work by successful agribusiness leaders.

216 FARM ACCOUNTING 3 F.S

Standard farm business accounting methods and procedures, financial measures of success, inventories, depreciation, net worth, income tax, budgeting and cash flow, and business analysis.

231 AGRICULTURAL CONSTRUCTION AND MAINTENANCE 3 F.S

AGR 130 req. Lecture and laboratory.

Selection, use and maintenance of hand and power tools and equipment for construction and maintenance in agriculture, shop organization; shop safety.

232 AGRICULTURAL POWER UNITS AND MACHINERY 3 F.S

Lecture and laboratory.

Principles of single and multiple cylinder engine operation. Selection, adjustment, operation and maintenance of field machinery.

234 SOIL AND WATER CONSERVATION 3 F.S

Lecture and laboratory. Field trips.

Drainage, soil erosion control, water conservation on farms; planning, materials, construction, repair, and adaptation of structures to farm needs.

235 FARM UTILITIES 3 F.S

Lecture and laboratory.

Application of electricity for light, heat, and power; principles of operation, selection, installation of electrical equipment. Water supply, sewage systems.

240 AGRICULTURAL POWER SYSTEMS 3 F.S

AGR 232 req. Lecture and laboratory. Field trip.

Selecting, analyzing, maintaining spark-ignition and diesel tractors. Principles of hydraulics, power transmission, and electrical regulation systems.

250 GRAIN AND SOYBEAN PRODUCTION 3 F.S
AGR 150 req. Lecture and laboratory.

Principles of planting, cultivating and harvesting grain and soybeans; control of diseases, insects, pests and weeds.

251 FORAGE CROP PRODUCTION 3 F
AGR 150 req. Lecture and laboratory.

Characteristics, utilization and production of principal forage plants. Recent literature in forage management reviewed.

252 ORNAMENTAL HORTICULTURE 3 F

Cultural practices and principles in the selection and care of ornamental plants for landscape and garden use. Introduction to landscape design and maintenance.

253 FLORAL DESIGN 3 F
Lectures and practice in floral designing. Materials charge optional.

Principles and practice in the design of floral arrangements. Introduction to the operation of retail florist businesses.

254 PLANTS FOR INTERIOR DESIGN 3 S
Lecture and laboratory.

Study of tropical and subtropical ornamental plants grown as interior design elements. Preparation of designs which utilize these plants.

255 WOODY PLANTS: IDENTIFICATION AND LANDSCAPE VALUE 3 F

Intensive field study supplemented by lectures.
 Identification and landscape value of ornamental trees, shrubs, vines, and ground cover.

258 SOIL MICROBIOLOGY 4 S
AGR 157. Lecture and Laboratory. Offered alternate years.

Soil microorganisms and their effect on physical, chemical and biological properties of soils.

259 SOIL DEVELOPMENT AND CLASSIFICATION 3 F
AGR 157 req. Offered even numbered years. Lecture and laboratory. Field trips.

Development, characteristics, and identification of soils as they apply to soil mapping, land use, and soil classification.

272 AGRICULTURAL GENETICS 3 F
BSC 121 or 190, AGR 170 or 150. Lecture and laboratory.

Heredity, variation and development of domesticated plants and animals. Mendelian genetics, mutations, linkage, quantitative inheritance and population genetics.

274 DAIRY SCIENCE 4 F
AGR 170 req. 171 rec. Lecture and laboratory. Field trips.

The dairy industry, breeds, selection, judging, care and management of dairy cattle, quality milk production, milk products and milk testing.

275 FEEDLOT MANAGEMENT 3 S
AGR 170, 171 req.

The feeding, health and financial management of feedlot cattle, including pollution control and facility design.

276 PORK PRODUCTION 3 F.S
AGR 170, 171 req. Lecture and laboratory.

Breeds, care and management of breeding herd; care and

feeding of swine, selecting swine for breeding and marketing.

277 SHEEP PRODUCTION 3 S
AGR 170 and 171 req. Lecture and laboratory.

Breeding, feeding and management practices essential for economical production of the farm sheep flock.

278 BEEF PRODUCTION 3 S
AGR 170, and 171 req. Lecture and laboratory. Field trips.

Beef cattle industry, economics, care, management and production skills involved in cow-calf and finishing cattle operations.

279 POULTRY PRODUCTION 3
AGR 170 req. Lecture and laboratory.

Breeding, feeding and management practices essential for the poultry business.

280 LIVESTOCK SELECTION 3 S
Laboratory. Field trips.

Fundamentals of livestock and dairy selection; relation to production, marketing and showing.

281 DAIRY CATTLE SELECTION 2 F
AGR 280 req. Laboratory.

Specialized training in evaluating dairy cattle. Comparative terminology, decision making and presentation of oral reasons. Field trips to dairy farms.

282 LIVESTOCK HEALTH AND DISEASES 3 F
BSC 190; AGR 170 req.

Animal physiology, anatomy, sanitation and diseases. Prevention and control of diseases of domesticated species of livestock.

283 ARTIFICIAL INSEMINATION OF FARM ANIMALS 3 F.S

Lecture and laboratory.

Principles of artificial insemination and factors affecting conception in natural and artificial breeding.

284 LIVESTOCK PRODUCTION SKILLS 3 F

AGR 170 req. Lecture and laboratory. Cons instr req. Field trips.

A study and mastery of skills required in livestock production and different methods and tools used to perform these skills.

285 MEAT SCIENCE 3 F.S
Lecture and laboratory.

Comprehensive treatment of the meat industry and presentation of basic facts about one of our most important food products.

286 BEHAVIOR OF DOMESTIC ANIMALS 3 S

Behavioral patterns and systems, group formations, socialization, physical environment, genetic and physiological factors as they relate to domestic animals.

288 ADVANCED LIVESTOCK SELECTION 3 F

AGR 280 req. Laboratory. Field trips.

Judging various species of livestock in relation to their functions in show ring and market and presentation of oral reasons.

290 HORSE SCIENCE 3 S
AGR 170 req. or documented evidence of 3 years experience with horses.

Anatomy, physiology, nutrition and genetics applied specifically to horses.

295 SUMMER EXPERIENCE IN AGRICULTURAL EDUCATION	3	Summer	
Experience in the profession of agricultural education in high school. Includes program planning and working with special needs students.			
302 SPECIAL PROBLEMS IN AGRICULTURE	1-3	F.S	
<i>Comprehensive maj, maj, or min in AGR or AGR Bus. GPA 2.5. May be repeated. Max 6 hrs.</i>			
Special work in research interests of student and staff. Projects must be approved by the staff member and the chairperson of the department.			
303 SEMINAR IN AGRICULTURE	1	F.S	
<i>Senior or graduate standing.</i>			
310 RURAL APPRAISALS	3	F.S	
<i>AGR 216, or 318, or ACC 131 rec and an academic background in agriculture. Field trips.</i>			
Principles, procedures, and terminology for evaluating rural property; preparation of appraisal reports as currently prepared by qualified and experienced rural appraisers.			
314 GRAIN MARKETING	2	F.S	
<i>AGR 214 req.</i>			
Economics and marketing problems in grain industry. Special emphasis on futures marketing.			
316 LIVESTOCK MARKETING	2	S	
<i>AGR 214 req.</i>			
Economic principles applied to marketing of livestock and livestock products. Consideration given to producers, processors, and distributors.			
318 AGRICULTURAL FINANCE	3	F.S	
<i>AGR 216 or ACC 131 req.</i>			
The principles of agricultural finance including the capital requirements, the sources of credit, and the optimum uses of capital.			
319 AGRICULTURAL POLICIES AND PROGRAMS	3	F	
<i>AGR 110 req. ECO 240 rec.</i>			
History and impact of government intervention in agriculture. Examination of major agricultural programs, past and present.			
320 FARM COMMODITY PRICING	3	F	
<i>AGR 214 req. ECO 240 rec.</i>			
Analysis of the theory and mechanics of price determination for agriculture commodities.			
340 EQUIPMENT FOR PRODUCING AND HANDLING AGRICULTURAL PRODUCTS	3	F	
<i>AGR 130 req. Lecture and laboratory. Field trips.</i>			
Selection, design, operation, adjustment and maintenance of machinery and equipment used in producing, storing, and processing agricultural products.			
345 AGRICULTURAL ACCIDENT PREVENTION	3	F	
<i>Also offered as B73. Materials charge optional.</i>			
Major problems of accident causation and prevention applicable to agriculture and the need for farm safety education.			
352 TURF MANAGEMENT	3		
<i>AGR 150 or BSC 121 req.</i>			
Principles and practices used in management of turfgrasses, residential and recreational turf.			
353 LANDSCAPE DESIGN AND CONSTRUCTION	3	S	
<i>AGR 252 and 255 req. Lectures and practice in landscape design.</i>			
Problem approach to landscape design and construction. Site surveys and analyses. Plant selection and preparation of functional designs.			
355 PLANT BREEDING	3	S	
<i>AGR 272 req.</i>			
Breeding procedures and techniques used in developing new varieties of field crops.			
356 PLANT PROPAGATION	3		
<i>AGR 150, or BSC 121 req. Lecture and laboratory.</i>			
Basic principles and commercial practices involved in sexual and asexual propagation of agricultural plants.			
357 SOIL FERTILITY AND FERTILIZERS	4	F	
<i>AGR 157 req. Lecture and laboratory. Field trips.</i>			
Fundamental concepts of soil fertility and fertilizer manufacturing. Plant nutrition, factors affecting plant growth, soil-plant relationships, and macro- and micro-nutrients.			
360 CROP CONDITIONING AND STORAGE	3	F	
<i>AGR 250 and 5 hrs. CHE, req.</i>			
A comprehensive study of the chemical, physical and physiological aspects of crop conditioning and storage with emphasis on soybeans and grain crops.			
372 LIVESTOCK BREEDING	3	S	
<i>AGR 272 or BSC 319 req.</i>			
Reproduction and principles of heredity and their application to livestock breeding; population genetics, inbreeding, relationship, outbreeding and selection.			
373 REPRODUCTIVE PHYSIOLOGY AND MILK SECRETION	3	S	
<i>AGR 170 req.</i>			
Reproduction in livestock, anatomy of the reproductive and hormonal systems, physiological and hormonal aspects of lactation.			
374 DAIRY CATTLE FEEDING AND MANAGEMENT	3	S	
<i>AGR 274 req. Field trips.</i>			
Feeding and management of dairy cattle as they relate to an economic dairy farm operation.			
375 ANIMAL NUTRITION	3	F	
<i>AGR 170, 171 req. Field trips.</i>			
Science of animal nutrition; special attention to recent discoveries pertaining to the protein, mineral and vitamin requirements of livestock.			
380 ORGANIZATION AND ADMINISTRATION OF VOCATIONAL COOPERATIVE EDUCATION PROGRAMS	3	F.S	
<i>Also offered as BEA 380, HEC 380, and IT 305. Incl Clin Exp. Formerly ORGANIZATION AND ADMINISTRATION OF VOCATIONAL OFFICE AND DISTRIBUTIVE EDUCATION PROGRAMS.</i>			
Planning and organizing a cooperative program; emphasis on recruitment, selection of training stations, student placement, and operation of cooperative plan.			
382 COORDINATION TECHNIQUES OF COOPERATIVE VOCATIONAL EDUCATION PROGRAMS	3	S	
<i>Also offered as BEA 382, HEC 382, and IT 306. Incl Clin Exp. Formerly COORDINATION TECHNIQUES OF COOPERATIVE OFFICE AND DISTRIBUTIVE EDUCATION PROGRAMS.</i>			

Coordination techniques needed for high school and post-secondary teacher coordination in integrating classroom activities with daily employment.

396 METHODS AND PROCEDURES IN AGRICULTURAL EDUCATION 5 F.S

Procedures in planning, conducting, and evaluating an agricultural education program; philosophical inquiry in education; teaching special needs students.

398 PROFESSIONAL PRACTICE: INTERNSHIP/CO-OP EDUCATION IN AGRICULTURE 1-6 F.S

Major in any AGR area. GPA 2.5. 8 hrs of course work in intern area, approved application. May be repeated. Max 6 hrs.

Supervised on-the-job experience with an agriculture firm. Forty-five hours work following an approved training program/1 hour credit.

APPLIED COMPUTER SCIENCE (ACS) 133B Stevenson Hall

Chairperson: Michael J. Powers.

Faculty: Professor: Powers. Associate Professors: Beccue, Brewer, C. Chrisman, G. Chrisman, Sanders. Assistant Professors: Brumbaugh, Chalmers, Cook, Crissey, Croteau, Kephart, Liu, Marlow, Scanlan, White. Instructors: Kacmar, Otto, Moullic.

Applied Computer Science Programs

Degree Offered: B.S.

The purpose of the Applied Computer Science (ACS) program is to provide training in the application of computer and systems techniques to real world problems. The ACS major is designed to prepare professionals in the areas of data processing, computer information systems, and technical systems. The ACS minor is intended for the user, for the person who will serve a liaison role or provide limited computer and systems support for a user group.

There are two sequences in the ACS major: Computer Information Systems and Technical Systems. These sequences each require a minor or second major and 21-23 hours of outside requirements as specified below. (There can be substantial overlap among courses which satisfy the outside requirements, University Studies, and the minor.)

Those students who choose a minor in the College of Business should be aware of the following policy: Non-Business majors who desire to elect more than 25 percent (30 credits) of their course work in business must meet all College of Business requirements for graduation. These students should register for business courses beyond 30 credits in person only and with the written permission of the College of Business adviser. The course requirements are listed in the College of Business section of the catalog.

Electives within the major: The "other requirements" section of each major program can be used to tailor individual programs based on student interest and career objectives. Within the Computer Information Systems major sequence, elective course group (a) is the standard choice, directed toward the preparation of programmer/analysts in medium to large organizations. Group (b) allows a greater emphasis on analysis and design, group (c) on systems programming topics, and group (d) on microcomputer

applications. Within the Technical Systems major sequence, elective course group (a) allows an emphasis on modeling and simulation; group (b) should be elected by students interested in a theoretical computer science graduate program.

Preparation for Graduate Study: Several directions are available to students who wish to prepare for graduate work. The Computer Information Systems sequence offers excellent preparation for a growing number of computer and management information system masters programs. Students interested in an MBA program should combine the CIS sequence with a business administration minor. The Technical Systems sequence should be elected by those students interested in traditional computer science graduate programs. Those interested in operations research oriented program would select the modeling and simulation emphasis in the Technical Systems sequence, while those interested in theoretical computer science would select the computer science graduate school emphasis. Any student interested in graduate school should discuss options with an academic adviser during the junior year.

Professional Practice: Each ACS major sequence includes a *practical experience requirement* that may be satisfied by a directed project, an internship, or a CO-OP assignment. Three hours of ACS 391/398 are counted toward the ACS major for this experience; however, *the hours in 391/398 alone do not satisfy the practical experience requirement*. The ACS Professional Practice Committee must certify **in advance** that the particular experience will satisfy the requirement. Application must be made at the ACS office six weeks prior to the start of the term in which the experience is to occur. Each directed project, internship, or CO-OP assignment requires the prior approval of the ACS coordinator of professional practice. A maximum of sixteen hours of professional practice credit (ACS 298, 391, 398) may be applied toward graduation.

Academic Policies: The following policies apply to ACS majors:

Grades: Only courses in which the student has received a grade of C or higher may be counted toward the 36 or 52 hours required for the ACS major. A grade of C or better is required in all prerequisite courses.

Retention: A student must meet the following GPA requirements to be retained as a major in ACS. Cumulative GPA:

0 - 44 hours	2.0
45 - 59 hours	2.2
60 or more hours	2.5

Major GPA: When six hours of coursework have been completed in the ACS department (excluding *non-major* courses), the student must have at least a 2.5 GPA in all such courses and must maintain or exceed this standard in all additional ACS coursework. (Only ISU courses are considered.)

Graduation: In order to graduate with an ACS major, a student must have a 2.5 cumulative GPA as well as a 2.5 GPA in the major.

Admission Policies: A student may enter the ACS major as a new freshman, a transfer student, or as a change of major at ISU. Minimum qualifications exist in each of these categories. These qualifications are subject to change annually. **Regardless of qualifications, the number of students admitted to the ACS program will depend on available space.** The qualifications in effect for fall 1983 are as follows: (Contact the department office or the Admissions Office for further information.)

New freshmen: Students in the upper half of their high

school class with a composite ACT score of 21 or higher and students in the lower half with a composite ACT score of 26 or higher are admissible.

Transfer students (over 30 hours): Students who have a cumulative GPA of 2.75 are admissible.

Change of major (within ISU): Students in their first semester at ISU must meet the appropriate requirements for new freshmen or transfers. Others must have a 2.5 cumulative GPA at ISU and meet one of the following conditions:

A in ACS 168 (if ACS 169 is not completed) or
A or B in both ACS 168, 169 (if only ACS 168/169 are completed) or

2.75 GPA in all ACS courses, excluding non-majors courses.

Honors in Applied Computer Science: The department offers honors work in applied computer science to highly qualified juniors and seniors. Candidates must have a 3.3 overall GPA and a 3.5 GPA in ACS. Honors requirements involve honors course work and the preparation of a substantial research paper or the completion of a significant application project prepared under the guidance of a faculty adviser. For further information contact the ACS director of honors.

MAJOR IN APPLIED COMPUTER SCIENCE

Computer Information Systems Sequence: Designed for the student who will seek a position as a programmer/analyst or systems programmer in a commercial environment. 37 hours required in the major. *Program Design core (13 hr):* Either the sequence ACS 168, 169, 272 or the sequence ACC 266, 366, ACS 274; and ACS 372. *System Design core (6 hr):* ACS 363, 364. *Practical Experience (3 hr):* ACS 391 or 398. *Other Requirements (15 hr):* ACS 278, 283 and one of the following four groups of courses: (a) ACS 376, 378 and one of ACS 255, 288, 344, 345, 368; (b) ACS 368 and two of ACS 255, 376, 378; (c) ACS 288, 383 and one of ACS 376, 378; (d) ACS 255, 355 and one of ACS 344, 345, 376, 378.

A minor or second major must be completed. Recommended areas are accounting, business administration, economics, or mathematics.

In addition to major requirements, the following 23 hours are required: MAT 145 & 146 or 120 & 121; COM 110, 223; COM, 329 or MAM 220; ACC 131; and a statistics course. While not required, ENG 249 is strongly recommended. (Depending on the minor selected, there may be substantial overlap of these courses with the minor and with University Studies.)

Technical Systems Sequence: Designed for the student interested in mathematically based commercial or engineering systems. 37 hours required in the major. *Program Design core (13 hr):* ACS 168, 169, 273, 288. *System Design core (3 hr):* ACS 363. *Practical Experience (3 hr):* ACS 391 or 398. *Other requirements (18 hr):* ACS 278, 283 and one of the following two groups of courses: (a) ACS 344, 345, 364 and one of ACS 272 or 255 or ECO 333; (b) ACS 383, 385, one of ACS 272 or 255 or MAT 366, and one of ACS 345 or 364 or 372.

A minor or second major in mathematics must be completed, including MAT 350.

In addition to the major and minor requirements, the following 9 hours are required: COM 110, 223; COM 329 or MAM 220. While not required, ENG 249 is strongly recommended. (These courses may overlap University Studies as appropriate.)

Other Programs: The ACS major is designed to serve the needs of all students who wish to apply computer and

systems techniques to the solution of real world problems. As new areas are affected by the computer, students may have needs that are not met adequately by the existing sequences. Until new sequences are identified, interested students may apply to the University's Contract Major program. Inquire at the ACS office.

MINOR IN APPLIED COMPUTER SCIENCE

Computer Information Systems Sequence: 22 hours required. *Program Design core (13 hr):* Either the sequence ACS 168, 169, 272 or the sequence ACC 266, 366, ACS 274; and ACS 372. *System Design core (3 hr):* ACS 363. *Other Requirements (6 hr):* ACS 283 and one of 255 or 278 or 364.

Technical Systems Sequence: 22 hours required. *Program Design core (13 hr):* ACS 168, 169, 273, 288. *System Design core (3 hr):* ACS 363. *Other Requirements (6 hr):* ACS 283 and one of ACS 255 or 344 or 345.

Special Applications Sequence: 24 hours required. For students interested in applying the computer in an area or in a way not covered adequately by one of the other sequences. A program of study must be approved by an adviser from ACS and the student's major adviser before the student has completed 9 hours in computer related courses. The approved minor program must include a two-semester sequence in a programming language and an appropriate systems or research methods course.

Applied Computer Science Courses

140 INTRODUCTION TO THE COMPUTER WORLD 3 US-7 F.S

Also offered as COM 140. Formerly INF 140. Materials charge optional. Not for credit ACS maj min.

A nontechnical course designed to develop effective computer users and to acquaint the students with the impact of computers on the person and society. No previous computer experience or mathematics requirements necessary.

164 INTRODUCTION TO FORTRAN PROGRAMMING 3 US-4 F.S

C or better in MAT 107 or HS equiv req. Also offered as MAT 164. Not for credit if had ACS 273.

An introduction to programming using the FORTRAN language including built-in functions, subprograms, and sequential file processing.

168 STRUCTURED PROBLEM SOLVING AND THE COMPUTER 3 US-4 F.S

C or better in MAT 107 or HS equiv req. Recommended as the first crse in the ACS maj. Materials charge optional. Formerly MAT 168.

Emphasis on structured problem solving and the development of algorithms for information processing. The PL/C language is used.

169 INFORMATION PROCESSING USING PL/I 3 F.S

An A or B in ACS 168 or cons dept chair. Formerly MAT 169.

Programming techniques using major components of PL/I including data representation, block structure, flow of control, storage classes, consecutive file organization, subroutines, and user defined functions.

255 MICROCOMPUTER APPLICATION AND DESIGN I 3 F.S

ACS 169 or A in ACS 289 (Introduction to Microcomputers) req. Materials charge optional.

Introduction to hardware/software microcomputer architec-

ture. Microcomputer and peripheral configurations for various applications. High-level language programming and file manipulation.

265 JOB CONTROL LANGUAGE 1

A two semester sequence in a programming language. Not for credit if had ACS 372 or MAT 384. Formerly MAT 265.

JCL for IBM 360/370 operating system. Course utilizes video tape lectures and discussion sessions.

272 COBOL AS A SECOND LANGUAGE 4 F.S

ACS 169 req. ACS 283 rec. Not for credit if had ACC 366. Formerly MAT 272.

Study of the COBOL language for students with substantial programming experience in another language. Emphasizes structured problem solving and programming.

273 FORTRAN AS A SECOND LANGUAGE 4 F

ACS 169 or ACC 266 req. ACS 283 rec. Either a B in MAT 121 or a C in MAT 145 req. Not for credit if had ACS/MAT 164.

Intensive study of FORTRAN for students with programming experience. Emphasizes designing and implementing solutions to mathematically based problems. Introduces IBM utilities and software packages.

274 PL/I AS A SECOND LANGUAGE 4 F.S

A two semester sequence in a programming language or an A in ACS 164 and 283 req.

Intensive study of the PL/I language for students with previous programming experience. Emphasizes structured problem solving and programming.

278 DATA STRUCTURES 3 F.S

ACS 169 or ACS 274 req. Formerly MAT 284.

Data representation and organization, structuring of data, lists, stacks, trees, queues, sorting, merging, and file organization maintenance.

281 COMPUTER SYSTEMS OPERATION 2 F.S

ACS 168. Also offered as IT 281.

Basic principles for operating IBM 360 VS computer system and peripheral equipment. Hands-on experience provided.

283 ASSEMBLER LANGUAGE PROGRAMMING 3 F.S

ACS 169 or equiv, or A or B in ACS 164 req. Formerly MAT 283.

Assembler language programming, macro language, and debugging compiler level programs via dumps.

288 ADVANCED ASSEMBLER LANGUAGE PROGRAMMING 3 F

ACS 283. Formerly MAT 288.

Programming techniques using major components of BAL including sequential access methods, subroutine linkage, interrupt processing, dynamic storage allocation.

298 PROFESSIONAL PRACTICE: CO-OP IN APPLIED COMPUTER SCIENCE 1-4 F.S

ACS 169 and prior approval by Prof Practice Committee. Maj only. Not for credit maj min. May be repeated. Max 16 hrs combined credit in ACS 298, 391, 398.

344 DISCRETE SYSTEM SIMULATION 3 F

ACS 169 or 273 or 274 req. MAT 121 or 146 req. A course in prob/stat req. Also offered as MAM 344.

Problem solving using discrete simulation languages and techniques. Applied queuing theory, pseudo-random numbers, model verification and validation, experimental design.

345 APPLIED COMPUTER MODELING 3 S

MAT 121 or 146, ACS 164 or 168 or 273 or ACC 266 req. ACS 169 rec.

Computer-based modeling methodologies applied to complex social and natural systems. Simulation languages, system dynamics, case studies, and modeling projects.

355 MICROCOMPUTER APPLICATION AND DESIGN II 3 S

ACS 255 req. ACS 283 rec. Materials charge optional.

Microcomputer applications with an emphasis on basic microcomputer architecture, interfacing peripherals, machine language programming, and system software design.

363 INTRODUCTION TO SYSTEMS DEVELOPMENT 3 F.S

A two semester sequence in a programming language and Jr standing req. COM 223 rec. Formerly MAT 363.

Development of computerized information systems emphasizing structured systems analysis and the project leader's role in the organization and control of the development process.

364 SOFTWARE DESIGN 3 F.S

ACS 363 req. Materials charge optional. Formerly MAT 364.

Structured design methodologies and implementation strategies in information system software development. Emphasizes psychological aspect of development, accurate reflection of the problem, correctness, reliability, maintainability.

368 TOPICS IN SYSTEMS DESIGN 3 S

ACS 363, 364. Materials charge optional. Formerly MAT 368.

Advanced topics in systems analysis, design, and development.

372 EXTERNAL DATA STRUCTURES 3 F.S

ACS 272 req. Formerly MAT 384.

External file design, VSAM, IBM utilities and sort/merge, basic concepts of IBM/MVS operating systems, and extensive study of JCL. Programming in COBOL.

376 INTRODUCTION TO ONLINE SYSTEMS 3 F.S

ACS 363 and 372 or conc reg req. Materials charge optional.

Design, development, and implementation of online system applications using CICS with studies in data communications concepts, hardware, man-machine interaction, networking, and distributed processing.

378 DATABASE PROCESSING 3 F.S

ACS 278, 372 req.

Database software design philosophies: hierarchical, network, relational. Study of major commercial packages. Implications for systems development and management of the information resource.

383 PRINCIPLES OF OPERATING SYSTEMS 3 S

ACS 169, 283 req.

Functional criteria for operating system design. Job management, task management, data management, resource allocation and dump and trace facilities.

385 TOPICS IN COMPUTER SCIENCE 3 S

Jr or Sr standing and ACS 283 req. May be repeated if content different.

In depth study of a topic such as compiler design, artificial intelligence, programming language and digital logic design.

390 INDEPENDENT STUDY	1-3	F.S
391 DIRECTED PROJECT IN APPLIED COMPUTER SCIENCE	1-6	F.S
<i>ACS 364, 288 and 372 or 355, and prior approval of the ACS Prof Practice Committee req. May be repeated. Max 16 hrs combined credit in ACS 298, 391, 398. By application only (due 6 wks in adv).</i>		

Team design and/or implementation of a modest sized computer based system in a live environment under faculty supervision.

398 PROFESSIONAL PRACTICE: INTERNSHIP/CO-OP IN APPLIED COMPUTER SCIENCE	1-6	F.S
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ACS 363 and either ACS 272 or 288. Prior approval of ACS Prof Practice Committee. May be repeated. Max 16 hrs combined credit in ACS 298, 391, 398. By application only.

CRIMINAL JUSTICE SCIENCES (CJS)

401 Schroeder Hall

Chairperson: Robert G. Culbertson.

Faculty: Professor: Culbertson. Associate Professors: Cox. Assistant Professors: Ellsworth, Klofas, Shook, Weisheit. Instructor: Fortune. Lecturers: Alexander, Green.

Criminal Justice Sciences Programs

Degrees Offered: B.A., B.S.

The purpose of the Criminal Justice Sciences program is to provide the student with a system orientation to the field of criminal justice. Study in criminal justice involves the application of principles of criminal justice and the related behavioral and social sciences to problems and issues in the field of criminal justice. The program, therefore, focuses on the building of knowledge in the areas of law enforcement, courts, and corrections from a social science perspective. Students develop a knowledge base for an in-depth understanding of human behavior and the kinds of problems and circumstances that often result in criminality. Finally, the program provides students with the opportunity to gain necessary skills in the area of interviewing, program development, community organization, planning and research to function in a professional position in the field of criminal justice.

COMPREHENSIVE CRIMINAL JUSTICE SCIENCES

- 55 hours required.
- Required courses: CJS 101, 200, 201, 207, 300, 304, 390 or 395, 398.01 (6 hours)*, 398.02 (6 hours)*.
- 22 hours of electives selected with the approval of an academic adviser. A minimum of 12 hours must be selected from Department of Criminal Justice Sciences course offerings. Elective courses recommended in other departments: POS 215, 231, 330, 331; PSY 131, 232, 302, 350; SAS 221, 263, 264, 365, 367; SED 362; FAL 210; MAM 220, 221. Students who major in Criminal Justice Sciences must complete the following courses or equivalents: ENG 145; SAS 106; PSY 111.

*It is the responsibility of students wishing enrollment in CJS 398.01 and 398.02 to arrange personal interviews with

the Criminal Justice Sciences internship coordinator early in the semester immediately preceding desired enrollment for purposes of determining eligibility and discussing placement alternatives. To be eligible, the student shall have completed a minimum of 90 semester hours including all prerequisites, shall have a minimum cumulative GPA of 2.2, shall have a minimum GPA of 2.2 in Criminal Justice Sciences courses, and shall have been off academic probation for the previous full semester.

CJS 395, 398.01 and 398.02 may be waived for students who have completed one or more years of employment in a criminal justice agency provided that employment occurred within the preceding five years, or who academically or situationally are ineligible for the internship. If a waiver is granted the student will be required to complete the equivalent number of hours of course work with the approval of the departmental academic adviser from CJS 287, 301, 303, 305, 322, 339, 340, 360; POS 330, 331; PSY 302, 350; SAS 365, 367; SED 362. Students who have completed ACE evaluated training programs may substitute the training for CJS 395 and 398.01.

MINOR IN CRIMINAL JUSTICE SCIENCES

- 21 hours required.
- Required courses: CJS 101, 200, 201, 207, 304.
- 6 hours of electives selected with the approval of an academic adviser from the Department of Criminal Justice Sciences course offerings.

Honors in Criminal Justice Sciences: The department offers honors study in Criminal Justice Sciences to highly qualified students who will pursue an individualized program of study. The honors program enables the superior student to focus on topics of the student's own choosing in close consultation with a department faculty member. In order to qualify, the student must have achieved a GPA of 3.30 or better, both overall and in the major. The student must complete an independent study worth at least 3 semester hours credit (CJS 299-Independent Honors Study) and must complete at least an additional 3 semester hours credit of in-course honors or honors undergraduate research (IDS 285 or 286) in the department. In addition to the six hours credit for department honors, the student must also complete SAS 240 (Social Statistics) or its equivalent with a grade of B or better. Students interested in participating in the honors program should inquire about admission in the office of the Department of Criminal Justice Sciences.

Criminal Justice Sciences Courses

101 INTRODUCTION TO CRIMINAL JUSTICE SCIENCES	3	US-7	F.S
<i>Materials charge optional.</i>			
An analysis of the criminal justice system focusing on the police, courts, and corrections.			
200 CONTEMPORARY CORRECTIONS	3	F.S	
<i>CJS 101 rec. Maj/min only or cons inst.</i>			
Familiarizes students with correctional alternatives as they currently exist. Controversies and emerging trends in corrections will be considered.			
201 CRIME AND BEHAVIOR	3	F.S	
<i>CJS 101, SAS 106, PSY 111 rec. Maj/min only or cons inst. Materials charge optional. Formerly PSYCHOLOGICAL PRINCIPLES APPLIED TO CORRECTIONAL REHABILITATION.</i>			

Theoretical and conceptual explanations of criminal behavior.

205 CORRECTIONAL INSTITUTIONS 3 F.S

CJS 101, 200, or cons inst req. Materials charge optional.

An intensive analysis of correctional institutions and jails focusing on management issues, institutional programs, inmate subcultures and prisonization.

206 FUNDAMENTALS OF CRIMINAL INVESTIGATION 3 S

CJS 101 or cons inst rec.

An intensive analysis of the criminal investigation process including information gathering and analysis, preservation of evidence, legal issues, and investigative strategies.

207 CONTEMPORARY POLICING IN AMERICA 3 F.S

CJS 101 rec. Maj/min only or cons inst.

Survey of law enforcement, its history, police practices, functions, and related issues and concepts of contemporary police.

212 COMMUNITY-BASED CORRECTIONS 3 F.S

CJS 101, 200, ENG 145, and cons inst req. Not for credit if had both COR 202 and COR 203. If had COR 202 but not COR 203, can be substituted for COR 203 for students under catalogs prior to 1982-83. If under catalog prior to 1982-83 and have had neither COR 202 and COR 203, may substitute CJS 212 and 3 hours of CJS electives, selected with departmental adviser approval.

Theoretical basis, current methodology, and operations: Court counselors, citizen action, half-way houses, work-release, drug abuse treatment, detention, reception and diagnostic centers, and probation and parole.

300 EVALUATIVE RESEARCH OF PROGRAMS IN CRIMINAL JUSTICE 3 F.S

CJS 101. Maj/min only or cons inst.

Course enables student to analyze research in criminal justice and systematically evaluate the process and outcome of programs in the field.

301 JUVENILE JUSTICE 3 F.S

CJS 101 or cons inst rec.

The processing and treatment of juvenile offenders. Examines the organization, operation and goals of the individuals, agencies and institutions that work with youthful offenders.

303 POLICE ATTITUDES AND BEHAVIOR 3 S

CJS 101 or cons inst req.

Analysis of police attitudes and behavior focusing on occupational roles, police social systems, community/minority relations and police practices.

304 CRIMINAL LAW 3 F.S

CJS 101 rec. Maj/min only or cons inst. Formerly COR 204.

Survey of criminal law, including development of substantive criminal law. Examination of judicial opinions related to the criminal justice process.

305 RULES OF EVIDENCE FOR THE ADMINISTRATION OF JUSTICE 3 S

CJS 101 or cons inst req; POS 326 rec.

Examination of types of evidence, standards of proof, and legal requirements relating to the admissibility of evidence in court.

322 CORRECTIONAL COUNSELING 3 F.S

CJS 201, 212 and cons inst req. Materials charge optional.

Development of interpersonal communication, and

decision-making skills for direct intervention with correctional clients.

339 WOMEN IN CRIMINAL JUSTICE 3 S

CJS 101, 200; or cons inst rec.

Examines historical and theoretical perspectives and contemporary trends concerning women and crime, and processing of women by the criminal justice system.

340 ORGANIZED AND WHITE COLLAR CRIME 3 F

CJS 101 or cons inst rec.

Analysis of organized and white collar crime problem in America. Topics include prevalence, impact, laws and investigative techniques.

360 ISSUES IN CRIMINAL JUSTICE 1-4 F

May be repeated once if content different.

A critical and analytical study of a contemporary issue or controversy in the field of criminal justice.

390 INDEPENDENT STUDY 1-6 F.S

Overall GPA 3.0; GPA 3.0 in maj and conc reg in 398.01 req. Cons inst and dept chair req.

Allows senior undergraduate students registered for out-of-state internships to pursue areas of special interest independently and/or to work on special projects in lieu of CJS 395. In order to register, students must submit a proposal outlining the project which they wish to pursue.

395 CRIMINAL JUSTICE ADMINISTRATION 3-4 F.S

CJS 101, 200, 201, 207, 300, 304, cons inst, and conc reg in 398.01 req. For undergraduate CJS maj only.

Aspects of organizational behavior in criminal justice agencies will be considered to enable the student to better understand on-the-job experiences.

398.01 PROFESSIONAL PRACTICE: CRIMINAL JUSTICE INTERNSHIP I 6 F.S

Conc reg in CJS 390 or 395 and cons inst req. See CJS maj requirements for enrollment limitations. Materials charge optional. Formerly COR 397: CRIMINAL JUSTICE INTERNSHIP I.

Field placement in a criminal justice related agency. Interns work with designated agency personnel and receive an overview of agency functions.

398.02 PROFESSIONAL PRACTICE: CRIMINAL JUSTICE INTERNSHIP II 6 F.S

CJS 398.01 and cons inst req. See CJS maj min requirements for enrollment limitations. Materials charge optional. Formerly COR 398: CRIMINAL JUSTICE INTERNSHIP II.

Intensive experience in a single criminal justice agency setting.

HEALTH, PHYSICAL EDUCATION, RECREATION, AND DANCE (HPR)

201 Horton

Chairperson: Russell D. Gorman.

Faculty: Professors: Bass, Collie, Crafts, Dohrmann, Gorman, Greenlee, Imel, Jones, Keough, Koehler, Liverman, Mabry, McAdam, J. Scott, P. Scott, Truex, Weisbecker, Wilson, Workman. Associate Professors: Chiodo, Eichstaedt, Girardi, Hellweg, Higgins, Kauth, Quisenberry,

Tcheng, Vanderbeck, Wang. Assistant Professors: Abshire, Belknap, Chapman, Crews, Engberg, Goodwin, Henderson, Kassing, Meyers, Morton, Pankonin, Polacek, Rickards, Sorrells, Stephens, Stoddard, Weith, Wennenstrom. Instructors: Baldea, Brackett, Schmucker.

Honors in Health, Physical Education, Recreation and Dance: The Department of Health, Physical Education, Recreation and Dance offers to the highly qualified major or minor student an individualized program. Students who are interested apply for admission to the program, offering general academic qualifications. The final designation *Honors in Health, Physical Education, Recreation and Dance* is earned by completing the program and fulfilling specific criteria. Additional information may be obtained from the chairperson of the Department of Health, Physical Education, Recreation and Dance.

Readmission Policy: Students who have been dropped from the department because of repeated academic probation may be readmitted after they have repeated D's and F's in courses required by their major, and when their cumulative GPA reaches 2.0 if they are in a non-teaching option or 2.2 if they are in a teaching option in dance or physical education. Students majoring in one of the sequences leading to teacher certification in dance or physical education must also meet the standards for teacher education programs described by programmatic policies for selective admission and retention.

Dance Programs

Degrees Offered: B.A., B.S., B.S. in Ed.

Dance Education students should consult the University-Wide Teacher Education Program Requirements section of the Catalog for information relevant to admission to the teacher education program, certification, and clinical experiences in teacher education.

COMPREHENSIVE DANCE MAJOR

- 55 hours required.
- Required courses (47 hours): HPR 124, 124.02, 125, 163, 165, 181, 260, 266, 267 or 282, 365, 366, 366.02, 367, 368; 9 hours from HPR 162 and 167; 5 hours from 120, 133, 261.12, 261.22, 261.32.
- Elective courses (8 hours) selected from Dance courses.

MAJOR IN DANCE EDUCATION

- 39 hours required. Part of entitlement program leading to certification: secondary 6-12.
- Required courses (39 hours): HPR 124, 125, 162, 163, 165, 167, 181, 260, 267 or 282, 360, 366 or 366.02, 367, 368; 5 hours from HPR 120, 133, 261.12, 261.22, 261.32.

MINOR IN DANCE

- 24 hours required.
- Required courses (19 hours): HPR 124, 125, 162 or 167, 163, 181, 267 or 282, 366 or 366.02; 3 hours from HPR 120 and 133.
- Elective courses (5 hours) selected from Dance courses.

MINOR IN DANCE EDUCATION

(for HPR majors)

- 24 hours required.
- Required courses (21 hours): HPR 124, 125, 162, 163, 360, 366 or 366.02, 368; 4 hours from HPR 120 and 133.
- Elective courses (3 hours) selected from Dance courses.

MINOR IN DANCE EDUCATION

(for non-HPR majors)

- 24 hours required.
- Required courses (21 hours): HPR 124, 162, 163, 181, 260, 267 or 282, 367; 3 hours from HPR 120 and 133.
- Elective courses (3 hours) selected from Dance courses.

Physical Education Programs

Degrees Offered: B.A., B.S., B.S. in Ed.

COMPREHENSIVE PHYSICAL EDUCATION

MAJOR

Teacher Certification Sequence: 50 hours required. Part of entitlement program leading to certification: secondary 6-12; optional special K-12. Required Courses: HPR 156, 157, 158, 181, 182 or 351, 221, 241, 252, 253, 258, 282, 383.

Required Specific Physical Skills and Personal Safety Competencies: Upon completion of 90 semester hours (or before student teaching for teacher certification students), all major students must verify competencies (knowledge and skill) in 12 selected physical education activities and in 3 areas of personal safety. The verification must be a matter of record in the department office. Minimum competency may be demonstrated by either (1) satisfactory completion of activity courses specifically designated major/minor with a grade of C or better, or (2) satisfactory completion of a major/minor proficiency examination in the specific activity. All major students must verify at least six of the twelve activity competencies at Illinois State by enrolling in selected courses designated as major/minor. A maximum of 6 hours may be earned by proficiency. Required competencies are listed in the following plan:

A. *Individual-Dual Activities.* Select Badminton (150.20), Tennis (150.70), Golf (150.50), Track-Field (150.80), Gymnastics (150.60), and Fitness and Conditioning (150.40).

B. *Team Sports.* Select Basketball (151.10), Softball (151.20), Volleyball (151.30), and Soccer (152.30).

C. *Dance Activities.* Select Folk and Square Dance 153.20 and either Social Dance (153.10) or Modern Dance (153.30).

D. *Personal Safety Skills.* Students must verify minimum competence in personal safety skills at the time of admission as a major or before completing 90 semester hours (or before student teaching for teacher education students) as follows:

1. *Swimming.* Satisfactory completion of any college level swimming course or presentation of a current ARC, YMCA, or YWCA intermediate or higher level certificate.

2. *First Aid.* Satisfactory completion of First Aid (180) with a grade of C or better, or satisfactory completion of a first aid proficiency test, or presentation of a current Standard ARC First Aid Certificate.

3. *Cardiopulmonary Resuscitation.* CPR techniques must be verified by presenting a current operator's certificate.

Elective Courses: Students are encouraged to select one of the following areas of concentration to complete the 50 hours required of the comprehensive major: (1) Adapted Physical Education, (2) Aquatics, (3) Athletic Coaching, (4) Athletic Training, (5) Dance, (6) Recreation, (7) Elementary Physical Education, or (8) Secondary Physical Education. Written materials describing each area of concentration are available through departmental advisers.

Non-Certification Sequence: 50 hours required. Program requirements are the same as those for the Teacher Certification Sequence except HPR 298 is required instead of HPR 258.

MAJOR IN PHYSICAL EDUCATION

Teacher Certification Sequence: 37 hours required. Part of entitlement program leading to certification: secondary 6-12; optional special K-12. Required Courses (30 hours): HPR 156, 157, 158, 181, 182 or 351, 221, 241, 252, 253, 258, 282, 383.

Required Specific Physical Skills and Personal Safety Competencies are the same as those listed above under the 50-hour Comprehensive Physical Education Major.

Non-Certification Sequence: 37 hours required. Program requirements are the same as those for the Teacher Certification Sequence.

Selective Admission-Retention Policy For the Teacher Education

Programs in Physical Education

Selective Admission: All physical education majors planning to become certified teachers must apply for and be admitted to the University's Teacher Education Program (see Teacher Education Program section of the catalog). Upon applying for admission to the departmental Teacher Education program, the Physical Education Major or Comprehensive Major must have verified the following:

1. A minimum of six semester hours in physical education at Illinois State with a minimum grade of C in each physical education course taken. The six semester hours must include two hours in HPR 158 (Instructional Strategies) and two hours in the Specific Physical Education and Personal Safety Competencies.
2. A minimum GPA of 2.2 in professional physical education courses (theory and activity).
3. Satisfactory completion of the clinical experience (participation assignment) included in HPR 158 (Instructional Strategies). To achieve a satisfactory rating, the student must have an overall rating of 3 or above on a scale of 5 in this experience. If this rating is not achieved, a student must participate in a second assignment. A student must demonstrate improvement in this second experience by achieving a minimum rating of 4 or above. *Students who do not achieve a minimum rating of 4 or above on the second experience will not be recommended for admission to Teacher Education in Physical Education.*
4. Completion of a departmental application for admission to the Teacher Education Program and a projected program plan for graduation through contact with a departmental adviser.
5. Participation in a personal interview with the Program Director of Physical Education if so requested.
6. A positive recommendation from the Physical Education Program Director based upon evidence of satisfactory progress from faculty teaching in the major program.
7. If entering the major program as a freshman or sophomore, the student must comply with all university and physical education criteria for admission to Teacher Education upon the completion of 75 hours. Students, from on or off campus, who transfer into the program with 60 hours or more must complete the standards for admission no

later than the completion of two regular semesters as a major student. Failure to be admitted to Teacher Education by these deadlines will make students ineligible for Teacher Certification in Physical Education at Illinois State University. Exceptional circumstances, such as health, may be a cause for reconsideration.

8. A student may appeal for reconsideration to the Physical Education Selection-Retention Committee. After consideration, the committee will either reaffirm dropping the student as a major or reinstate on a probationary basis for a specific time.

Selective Retention: In order to receive departmental approval for a student teaching assignment the student must verify the following:

1. A student, after having been officially admitted to the University and departmental teacher education program, must maintain a GPA of 2.2 in both the overall and departmental courses. A student falling below the required GPA will be placed on probation for one semester. If after one semester, the 2.2 GPA has not been re-established, the student will be dropped from the University and Departmental Teacher Education Program. The student may reapply for admission upon meeting all of the criteria again.
2. Satisfactory (grade of C) completion of HPR 258 (Directed Experiences in Physical Education).
3. Received a satisfactory recommendation from the departmental faculty assigned to supervise the clinical experience in HPR 258.
4. Completion of the following additional courses with a minimum grade of C: HPR 156, 157, 181, 182, or 351, 221, 241 and 282.

Graduation Requirements and Entitlements: Upon graduation as a major in physical education, the student must verify a minimum grade of C in all physical education courses taken at Illinois State.

Completion of the Teacher Certification Sequence in the 37 hour major or the 50 hour Comprehensive Major entitles the physical education graduate to the 6-12 secondary certificate and, the K-12 special certificate if additional student teaching assignments have been completed at the elementary level. Student choice will determine the type of student teaching assignment (elementary and secondary or secondary only) and thus the type of certification entitlement. Students who select a dual student teaching assignment are entitled to both the K-12 and 6-12 teaching certificates when they graduate if they so desire.

MINOR IN PHYSICAL EDUCATION

Elementary Physical Education Sequence: This is a teacher education program. 24 hours required. Required courses (21 hours): HPR 156, 157, 162, 221 or 222 (or C&I 250), 224, 225, 252, 253, 321. Elective courses (3 hours): One course from HPR 150.40, 150.60 or 150.80 and two courses from HPR 151.10, 151.20, 151.30, 152.20, 152.30.

Secondary Physical Education Sequence: This is a teacher education program. 24 hours required. Required courses: HPR 156, 157, 158, 241, 252, 253; 6 hours selected from among HPR 181, 182 or 351, 282; and 4 hours selected as follows: (a) 2 hours from HPR 150.10 or 150.30, 150.20 or 150.70, 150.40, 150.50, 150.60, 150.80 or 150.90; (b) 1 hour from HPR 151.10, 151.20, 151.30, 152.20, 152.30; and (c) 1 hour from HPR 120, 153.30, 163.

Athletic Coaching Sequence: This is a nonteaching program, not recognized as a teaching area in Illinois. 24 hours required. Required courses: HPR 181, 182, or 351, 207,

384, 398; 2 hours selected from HPR 210, 211, 212, 213, 214; 2 or 3 hours selected from HPR 250, 252, 253, 5 or 6 hours selected from HPR 180, 209, 282, 304, 349, 387, or any other courses listed above.

Athletic Training Sequence: This is a nonteaching program, not recognized as a teaching area in Illinois. This sequence meets all necessary academic requirements for certification by the National Athletic Trainers' Association. Students interested in NATA certification should consult the Athletic Training Program Coordinator in the department for further information. 24 hours required. Required courses: HPR 113, 180, 181, 282, 351, 384, 387, and 6 hours of HPR 388.

Recreation and Park Administration Programs

Degree Offered: B.S.

Students are to obtain advising material related to Recreation and Park Administration programs in the Department's main office. A designated Recreation and Park Administration faculty member will assist students with advising all program areas. Each semester appropriate courses are to be selected and determined with the approval of an academic adviser.

COMPREHENSIVE RECREATION AND PARK ADMINISTRATION MAJOR

- 55 hours required as specified.
- Required courses (28 hours of core courses): HPR 170, 171, 271, 298.01, 375, 378 and 398.
- 27 hours of additional courses selected and determined with the approval of an academic adviser designed to meet one of the following sequences.

ADMINISTRATION SEQUENCE: HPR 174, 270, 370, 371; 6 hours in ACC, FAL, or MAM; 3 hours in POS; 6 hours in COM. Specific courses must have adviser approval.

PROGRAM-SUPERVISION SEQUENCE: HPR 174, 270, 370, 374; 3 hours in ACC or MAM; 3 hours in COM; 3 hours in PSY or SAS; 6 hours in skills or activity courses in ART, MUS, THE, or HPR. It is strongly recommended that the student also take additional hours using electives for developing skill competencies in at least two program areas including aquatics, art, crafts, dance, music, outdoor recreation, sports or theatre. Specific courses must have adviser approval.

RESOURCE MANAGEMENT SEQUENCE: HPR 275, 276, 371, 374; GEO 205 or BSC 202; 3 hours of ACC, ACS, or MAM; 6 hours of AGR and/or BSC; 3 hours of GEO or IT. Specific courses must have adviser approval.

THERAPEUTIC RECREATION SEQUENCE: HPR 181, 182, 273, 279, 370; 3 hours in COM or SED; 3 hours in fine arts (ART, MUS, and/or THE); 3 hours in HPERD activity skills; 3 hours in HSC. It is strongly recommended that the student take additional hours using electives for developing skill competencies in at least two program fields such as aquatics, art, crafts, dance, drama, music, outdoor recreation or sports. Specific courses must have adviser approval.

MAJOR IN RECREATION AND PARK ADMINISTRATION

- 37 hours required as specified.
- Required courses (28 hours of core courses): HPR 170, 171, 271, 298.01, 375, 378 and 398.
- 9 elective hours selected and determined with the approval of a Recreation and Park Administration adviser.

er, including 3 hours of ACC, FAL, or MAM; 3 hours in POS; 3 hours in COM. Specific courses must have adviser approval.

MINOR IN RECREATION AND PARK ADMINISTRATION

- 24 hours required as specified.
- Required courses: HPR 170, 171, 174, 271, 370, 371, 375; 5 elective hours in Recreation and Park Administration with the approval of an academic adviser.

Physical Education Courses

Some sections of these courses may be restricted to HPR majors.

An optional locker and towel charge will be assessed for students in selected physical education activity courses.

100 ADAPTED ACTIVITIES AND MEDICALLY PRESCRIBED EXERCISES	1	F.S
For persons assigned by the Health Service or a personal physician. Course offered on a credit/no credit basis only. May be repeated if necessary.		
Medically prescribed exercises for handicapped students, faculty, and community members in need of corrective and rehabilitative programs.		
102 BACKPACKING	1	F
Field trip req.		
Introduction to backpacking including the basic techniques and knowledge necessary for hiking and surviving in the outdoor environment.		
103 TARGET ARCHERY	1	F.S
Not for credit if had HPR 150.10.		
An introductory course covering basic skills and knowledges of tackle, bracing, stance, shooting, form, aiming, safety, and bow sights.		
104 NEUROMUSCULAR RELAXATION	1	F.S
The study and practice of a neuromuscular relaxation system based upon developing a knowledge and understanding of progressive relaxation as a method of recognizing and controlling tension.		
105 BADMINTON I	1	F.S
Not for credit if had HPR 150.20.		
Introduction to the basic strokes and strategies of badminton. Tournament play in singles and/or doubles.		
105.02 BADMINTON II	1	F.S
HPR 105 or equiv skills req.		
Intermediate and advanced techniques and strategies. Competition in singles, doubles, and mixed doubles.		
106.02 BASKETBALL II	1	F.S
Development of intermediate and advanced skills and strategies of basketball.		
108 BILLIARDS I	1	F.S
Materials charge optional.		
Basic shooting techniques with focus on stance, bridge and cue ball contact. Experience in games of Basic Pocket Billiards, Rotation and Eight Ball.		
108.02 BILLIARDS II	1	F.S
HPR 108 or intermediate playing ability req. Materials charge optional.		
Development of complex skills such as Caroms, Banks, and combination shots. Emphasis on spin, and the application of English.		

109 FIELD HOCKEY 1	F	
Not for credit if had HPR 152.10.		
Beginning knowledge, skills and strategies of the game of field hockey.		
110 WEIGHT CONTROL 1	F.S	
A practical personal approach to the problem of weight control based on the principles of behavior modification, diet, and exercise.		
112 BOWLING I 1	F.S	
Not for credit if had HPR 150.30. Materials charge optional.		
Development of basic skills and knowledges for the non and beginning bowler.		
112.02 BOWLING II 1	F.S	
HPR 112 or intermediate skill in bowling req. Materials charge optional.		
Development of more consistency with strikes and spares, an understanding of taps, lane conditions, ball tracks. Participation in a variety of tournaments.		
113 FITNESS AND CONDITIONING I 1 US-7	F.S	
Not for credit if had HPR 150.40. Materials charge optional.		
An individualized approach to the development of cardiovascular fitness program based upon a knowledge and understanding of the specific effects of exercise.		
116 CANOEING I 1	F.S	
Ability to swim in deep water req. Materials charge optional.		
An introductory course in handling and the proper care of a canoe. Special emphasis upon individual safety and the paddling strokes.		
118.02 SOFTBALL II 1	S	
Development of intermediate and advanced skills and strategies in softball.		
119 GOLF I 1	F.S	
Not for credit if had HPR 150.50.		
A basic course in golf designed for the beginner or high handicap golfer.		
119.02 GOLF II 1	F.S	
HPR 119 or evidence of intermediate skills in golf req.		
Designed for experienced or low handicap player. Refinement of basic and advanced strokes. Development of game and course strategy.		
127 SWIMMING I 1	F.S	
Completion meets Red Cross cert reqs. Certificate may be purchased from ARC.		
Instruction in adjustment skills and basic techniques of safety and swimming.		
127.02 SWIMMING II 1	F.S	
Formerly HPR 128. Completion meets Red Cross cert reqs. Certificate may be purchased from ARC.		
For advanced beginners and low intermediates.		
127.03 SWIMMING III 1	F.S	
Formerly HPR 129. Completion meets Red Cross cert reqs. Certificate may be purchased from ARC.		
For deep water swimmers to develop and refine aquatic skills.		
128 SYNCHRONIZED SWIMMING I 1 F		
HPR 127.03 or American Red Cross Swimmer skill level req. Formerly AQUATIC ART. Formerly HPR 101. Completion meets Red Cross cert reqs. Certificate may be purchased from ARC.		
Specialized skills in synchronized swimming strokes and aquatic stunts and figures.		
128.02 SYNCHRONIZED SWIMMING II 1 F		
Previous experience in synchronized swimming or aquatic art req. Formerly AQUATIC COMPOSITION. Formerly HPR 102.		
Opportunity for experience in group and individual composition in the aquatic medium with emphasis on techniques of production.		
129 SCUBA DIVING I 1	F.S	
Materials charge optional. Formerly HPR 138.		
An introductory course in skin and scuba diving. Special emphasis on individual safety and physical conditions affecting scuba diving.		
131 LIFE SAVING 2	F.S	
American Red Cross Swimmers or Advanced Swimmers skill level req. Completion meets Red Cross cert reqs. Certificate may be purchased from ARC.		
For highly skilled swimmers to learn special skills of life saving, rescue techniques, and water safety procedures.		
132 WATER SAFETY INSTRUCTORS COURSE 2	F.S	
Current American Red Cross Life-Saving Certificate req.		
Analysis of techniques in and methods of teaching swimming and life saving. Opportunity for American Red Cross Water Safety Instructor certification.		
133 SELECTED ACTIVITIES 1	F.S	
Selected beginning and/or intermediate activities offered as experimental programs.		
134 SAILING I 1	F	
Ability to swim in deep water req. Materials charge optional.		
Basic skills, knowledge, and safety necessary for small craft sailing.		
136 VOLLEYBALL I 1	F.S	
Not for credit if had HPR 151.30.		
Basic skills, rules and strategies involved in the game of volleyball, and application in tournament play.		
136.02 VOLLEYBALL II 1	F.S	
HPR 136 or intermediate skill in volleyball req.		
Advanced knowledges, skills and strategies of the game of volleyball, and application in a competitive situation.		
137 SOCCER 1	F	
Basic skills, rules, and strategies necessary for game play. Fundamentals emphasized with application in competitive play.		
139 GYMNASTICS I 1	F.S	
Not for credit if had HPR 150.60.		
Basic elements in floor exercise, vaulting, balance beam and uneven bars for women and basic elements in floor exercise, pommel horse, rings, vaulting, and parallel bars for men.		
139.02 GYMNASTICS II 1	F.S	
HPR 139 or equiv skills req.		
Refinement of basic gymnastic skills and events specially identified as men or women. Development of routines. Introduction to scoring.		
140 FENCING I 1	F.S	
Fundamentals of fencing; bouting; directing and judging a bout.		
142 TENNIS I 1	F.S	
Not for credit if had HPR 150.70.		
Introduction to the basic strokes and beginning strategy of tennis. Tournament play in singles and/or doubles.		
142.02 TENNIS II 1	F.S	
HPR 142 or equiv skills req.		

Introduction to intermediate strokes and review of basic strokes. Emphasis on doubles play.

143 TUMBLING I 1 F

An introduction to the basic skills of tumbling. Includes rolls, balance and springs. Development of tumbling routines.

143.02 TUMBLING II 1 F

HPR 139 or 143 or equiv skills req.

Opportunity to refine basic skills of tumbling. Emphasis upon springs and aerials.

144 RECREATIONAL GAMES 1 F.S

Beginning skills and knowledges of recreational games such as aerial darts, bounce ball, deck tennis and table tennis req. Tournament play in table tennis.

147 WEIGHT TRAINING 1 F.S

Formerly WEIGHT LIFTING.

Basic knowledges and concepts of use of resistive exercises to increase muscular strength and endurance. Participation in an individual weight program.

148 WRESTLING 1 F.S

Not for credit if had HPR 150.90.

Instruction in basic neuromuscular skills necessary for participation in wrestling. Knowledge of various styles of wrestling.

149 FLAG FOOTBALL 1 F.S

Not for credit if had HPR 152.20.

Development of fundamental football skills and strategies needed for game of flag football.

150.10 ARCHERY(Maj/Min) 1 F.S

Basic skills and safety in target archery. Selected organizational and instructional procedures and error analysis appropriate for teaching target archery.

150.20 BADMINTON(Maj/Min) 1 F.S

Introduction to the basic strokes and strategies of badminton. Emphasizes teaching strategies and class organization utilized in badminton.

150.30 BOWLING(Maj/Min) 1 F.S

Introduction to the basic and intermediate skills and knowledges of bowling. Selected organizational and instructional procedures appropriate for teaching bowling.

**150.40 FITNESS & CONDITIONING
(Maj/Min) 1 F.S**

An individualized approach to the development of cardio-respiratory fitness based upon an understanding of the specific effects of exercise.

150.50 GOLF(Maj/Min) 1 F.S

Presentation of basic skills and knowledges in golf methods and procedures for golf teaching.

150.60 GYMNASTICS(Maj/Min) 1 F.S

Instruction in the basic skills and techniques of various gymnastics events with emphasis on spotting and teaching strategies.

150.70 TENNIS(Maj/Min) 1 F.S

Introduction to the basic strokes and knowledge of tennis. Emphasizes teaching strategies and class management utilized in tennis.

150.80 TRACK AND FIELD(Maj/Min) 1 F.S

Instruction in the basic skills and techniques of various track and field events. Techniques of teaching will be presented.

150.90 WRESTLING(Maj/Min) 1 F.S

Development of fundamental wrestling skills and strategies with emphasis on teaching progressions, drills and strategies.

151.10 BASKETBALL(Maj/Min) 1 F.S

Development of fundamental basketball skills with emphasis on selected teaching progressions, drills, and strategies.

151.20 SOFTBALL(Maj/Min) 1 F.S

Development of fundamental softball skills and strategies. Emphasis on class organization, teaching progressions, and indoor activities.

151.30 VOLLEYBALL(Maj/Min) 1 F.S

Basic skills and strategies involved in the game of volleyball, and application in game play. A teaching progression is emphasized.

151.20 FIELD HOCKEY(Maj/Min) 1 F.S

Beginning knowledges, skills and strategies of the game of field hockey. Teaching strategies will be presented.

152.20 FLAG FOOTBALL(Maj/Min) 1 F.S

Development of basic skills and strategies. Selected organizational and instructional procedures appropriate for teaching flag football.

152.30 SOCCER(Maj/Min) 1 F.S

Basic skills, rules and strategies for game play; safety; selected organizational and instructional procedures appropriate for teaching soccer.

152.40 SPEEDBALL(Maj/Min) 1 F.S

Development of fundamental speedball skills and strategies, with a special emphasis on selected teaching progressions and drills.

153.10 SOCIAL DANCE(Maj/Min) 1 F.S

Basic couple movement concepts, fundamentals and techniques of social dance, and teaching methods.

**153.20 FOLK AND SQUARE
DANCE(Maj/Min) 1 F.S**

Basic skills and knowledges of folk and square dance. Class organization, selected techniques of teaching and assessment of skills included.

153.30 MODERN DANCE(Maj/Min) 1 F.S

Basic movement concepts, fundamentals of improvisation and composition, and teaching methods.

**155 CAREERS IN PHYSICAL EDUCATION,
RECREATION AND DANCE 2 S**

Introduction to career possibilities in the related fields of physical education, recreation and dance. Societal and employment trends affecting these fields.

**156 DIMENSIONS OF HUMAN MOVEMENT
2 F.S**

Introduction, understanding and appreciation of discipline of human movement, and its relationship to career options in physical education.

**157 BIOSCIENTIFIC PERSPECTIVES
OF HUMAN MOVEMENT 2 F.S**

HPR 156 or cons inst req.

The study of human movement throughout one's total life span as it is delineated by innate and environmental factors.

**158 INSTRUCTIONAL STRATEGIES IN
PHYSICAL EDUCATION 2 F.S**

C&I 200.01 (grade of C or better req.) or conc reg. Incl Clin Exp.

An introduction to the development of teaching skills in physical education. Emphasis upon practicing skills of teaching through micro-lessons and peer teaching.

159 OFFICIATING 1 F.S

May be repeated. Max 4 hrs. No more than one hour may be taken in each sport area.

Instruction, practice, and examination of officiating or judging techniques for the following sports; FALL SEMESTER: Men's football, women's basketball, badminton, field hockey, men's basketball and swimming; SPRING SEMESTER: Volleyball, track and field, softball, gymnastics, and tennis.

180 FIRST AID 2 US-7 F.S

Completion meets Red Cross cert reqs. Certificate may be purchased from ARC.

Accident prevention and action to be taken in cases of accident and sudden illness in the home, school and community. Students successfully completing this course will receive certification in Red Cross standard first aid. Instruction in CPR techniques will be included.

181 HUMAN ANATOMY AND PHYSIOLOGY 3 F.S

Gross structure and physiology of the human body; particular attention to the skeletal and muscular systems.

182 HUMAN ANATOMY AND PHYSIOLOGY 3 F.S

Emphasis on the nervous, circulatory, respiratory, and digestive systems.

207 THE COACH AND INTERSCHOOL ATHLETICS 2 F.S

An introduction to interschool athletic programs including basic philosophy, governing organizations, administrative duties of coaches and direct coaching responsibilities.

209 SPORTS SAFETY 3 S

Philosophy of sports safety. Human and environmental factors in sport injury, legal responsibilities of teacher, safety factors in activities; accident prevention and injury control in sports.

210 BASEBALL COACHING 2 F.S

HPR 207 or previous experience as a player or youth coach req. Soph standing req.

The theory and coaching of baseball essential to the professional preparation of those interested in coaching: history, philosophy, techniques and fundamentals.

211 BASKETBALL COACHING 2 F.S

HPR 207 or previous experience as a player or youth coach req. Soph standing req.

A course for professional preparation of coaches of basketball. Included are history, philosophy, techniques, and tactics of basketball.

212 FOOTBALL COACHING 2 F

HPR 207 or previous experience as a player or youth coach req. Soph standing req.

Theory and techniques of basic offensive and defensive football. The history, development of trends, modern innovations are included.

213 TRACK AND FIELD COACHING 2 S

HPR 207 or previous experience as a player or a youth coach req. Soph standing req.

Understanding and application of various training methods and coaching techniques in track and field events.

214 WRESTLING COACHING 2 F

HPR 148, 207 or previous experience as a participant or youth coach req. Soph standing req.

Techniques and the methods of coaching wrestling. Includes teaching techniques, conditioning, diet, ergogenic aids, motivational aids, scheduling and building a program.

221 ELEMENTARY PHYSICAL EDUCATION CURRICULUM 3 F.S

Incl Clin Exp.

Planning a program of physical education for elementary school children. Progressions within activities, techniques

of organization, and methods of teaching. Observations of children and laboratory sessions in activities.

222 PHYSICAL EDUCATION FOR ELEMENTARY CLASSROOM TEACHER 2 F.S

Not for credit maj min. No credit if in Elementary Education Core program. Incl Clin Exp.

Factors essential to program planning in physical education grades one through six. Types and progression of activities; methods and techniques of class organization. Observations of children and laboratory sessions in activities.

224 MOVEMENT EXPERIENCES FOR THE YOUNG CHILD 3 S

HPR 221 or 222 or conc reg req. Incl Clin Exp.

Development of a basic movement approach to teaching preschool and primary physical education. Problem solving as method of teaching. Skills, knowledges and concepts underlying traditional activities.

225 MOTOR DEVELOPMENT OF CHILDREN 3 F

Incl Clin Exp.

Motor development related to anatomical growth and sensory development in the child from infancy to puberty. Mechanisms and theories of perceptual motor development, research findings, and implications for physical education.

230 ADMINISTRATION OF AQUATICS 2

Organization and administration of instructional, recreational, and competitive aquatic programs. Personnel selection, training, facility management.

241 SECONDARY PHYSICAL EDUCATION CURRICULUM AND EVALUATION 4 F.S

C&I 200 (6 hours) or 200.03 (grade of C or better req) or 215 (2 hours) req or conc req. C&I 216 or 390 or conc reg req. Incl Clin Exp.

Development and administration of secondary physical education programs. Concepts and techniques of evaluation appropriate for the program and the learner in physical education.

252 CULTURAL PERSPECTIVES OF HUMAN MOVEMENT 2 F.S

HPR 156 or cons inst req.

Interrelationship of selected historical, philosophical and sociological human movement concepts which have significance for physical education.

253 PSYCHOLOGICAL PERSPECTIVES OF HUMAN MOVEMENT 2 F.S

HPR 156 or cons inst req.

A study of socio-psychological variables, and selected aspects of learning as they pertain to human movement experiences.

258 DIRECTED EXPERIENCES IN PHYSICAL EDUCATION 2 F.S

HPR 158, 221, or conc reg req.

Arranged clinical experience assignment that includes observation, participation, and teaching in an elementary physical education program. Class meets regularly twice a week as a seminar.

282 KINESIOLOGY 3 F.S

HPR 181 req. Materials charge optional.

Analysis of human motion based on anatomic and mechanical principles. Application of these principles in teaching physical education activities.

295 HONORS SEMINAR	3	F.S
Advanced readings and critical discussion of physical education with broad areas of concern in social, cultural, philosophical, and scientific bases.		
298 PRACTICUM EXPERIENCE IN PHYSICAL EDUCATION	2	F.S
<i>HPR 158 or cons prog dir req.</i>		
A practical experience in community settings other than public schools for non-teacher certification majors. Weekly seminar meetings accompany practicum.		
304 TEACHING OF SPORTS	3	F
Optimal learning in human movement: content, teacher behavior, situational conditions, analysis of sports, instructional approaches, application and research.		
306 PSYCHOLOGY OF SPORT	3 F. Summer	
<i>PSY 111 rec.</i>		
Psychological principles and concepts applied to sport situations and to individuals involved with sport activities.		
317 SOCIOLOGY OF SPORT	3	S
<i>Also offered as SAS 317.</i>		
The social institution of sport is examined using such sociological concepts as social organization, culture, socialization, deviance, social stratification, minority groups and collective behavior.		
321 CURRENT TRENDS IN ELEMENTARY PHYSICAL EDUCATION	3	S
<i>HPR 221 or 222 or elem tchg exp req.</i>		
Discussion of current trends in elementary Physical education. Identification and implications of trends in elementary education affecting Physical education programs.		
349 APPLIED MOTOR LEARNING	3	S
Perceptual-motor development and performance. Application of research, learning theories and assessment tools; maturational, perceptual and performance factors.		
351 EXERCISE PHYSIOLOGY	3	F.S
<i>HPR 181 or 157 req.</i>		
Utilization of human physiology in teaching physical education. Effects of exercise on body systems and physical efficiency tests and studies.		
352 BIOMECHANICS OF HUMAN MOVEMENT	3	F.S
<i>HPR 282 or cons inst req. PHY 108, MAT 108 rec.</i>		
Amplification of kinematics, including kinetics of human movements; introduction to high speed cinematography, biomechanics instrumentation and computer analysis.		
382 SENSORY MOTOR EDUCATION OF TRAINABLE MENTALLY HANDICAPPED	3	S
<i>Cons inst req. Incl Clin Exp.</i>		
Physical education activities appropriate for the trainable mentally handicapped child. Related appropriate teaching techniques are emphasized.		
383 ADAPTED PHYSICAL EDUCATION	2	F.S
<i>HPR 181 req.</i>		
Methods, materials, and activities appropriate for adapted physical education programs in elementary and secondary schools.		
384 INTRODUCTION TO ATHLETIC INJURIES	3	S
<i>HPR 182 or cons inst req.</i>		
A practical course. Emphasis upon responsibilities, limitations, qualifications, liabilities, taping and bandaging, identification of basic athletic injuries, prevention and treatment techniques for injuries.		
385 PHYSICAL DEFECTS-SURVEY AND REHABILITATION	3	F.S
<i>BSC 381 or HPR 282 req. Also offered as SED 385. Lecture and laboratory. Incl Clin Exp. Formerly BSC 385.</i>		
Identification and treatment of physical defects of handicapped children; special services, equipment and procedures for school programs.		
386 PHYSICAL EDUCATION FOR THE HANDICAPPED	3	S
<i>HPR 221, 222, or C&I 250 req.</i>		
Methods for assessing motor and manipulative competencies, designing prescriptive programs, techniques for teaching motor and manipulative skills to persons with orthopedic, sensory, and mental impairments. Clin. Exp. Incl.		
387 ADVANCED ATHLETIC INJURIES	3	S
<i>HPR 384 req.</i>		
Concentrated study of specific athletic injury problems; attention given to nutrition, drugs, conditioning and rehabilitation.		
388 LAB/CLINICAL PRACTICE IN ATHLETIC TRAINING	1-3	F.S
<i>Cons Athletic Training Coord req. Not for grad cr. May be repeated max 6 hrs.</i>		
Supervised laboratory practice under the guidance of a certified athletic trainer. One hundred hours of assigned laboratory time equals 1 semester hour.		
394 HEALTH ASPECTS OF AGING	3	F.S
<i>SAS 211 req. Materials charge optional. Also offered as HSC 394 and HEC 394.</i>		
A study of the characteristics of the aging process and factors influencing adaptation and the quality of living.		
398 PROFESSIONAL PRACTICE: COACHING PRACTICUM	1-3	F.S
<i>HPR 207 and one of HPR 210, 211, 212, 213, or 214 or experience as participant or youth coach req. May be repeated. Max 3 hrs.</i>		
Practical involvement in coach-team situation. Observation and sharing of coaching responsibilities including planning, practice, preparation, supervision, discipline, personal relationships, motivation, and public relations.		
 Dance Courses		
120 SOCIAL, SQUARE, AND FOLK DANCE	1	F.S
<i>Not for credit if had HPR 153.20.</i>		
An introduction to beginning principles and techniques of square dance, social dance, and folk dance.		
122 MODERN DANCE I	1 US-6	F.S
<i>Formerly HPR 123 MODERN DANCE I.</i>		
Emphasis on understanding modern dance as a creative art experience through technique, improvisation and composition.		
122.02 MODERN DANCE II	1	F.S
<i>HPR 122. Formerly HPR 124 MODERN DANCE II.</i>		
Continuation of 123 with emphasis on technique.		
123 BALLET I	1	F.S
A basic study of the techniques and principles of classical ballet.		
123.02 BALLET II	1	F.S
<i>HPR 123 or cons inst req.</i>		
Continuation of basic study of the techniques and principles of classical ballet.		

124 JAZZ DANCE I	1	F.S	
Formerly HPR 163 JAZZ DANCE I.			
An introduction to the techniques and styles of jazz dance.			
124.02 JAZZ DANCE II	1	F.S	
Formerly HPR 124 or cons inst. Formerly HPR 164 JAZZ DANCE II.			
Continuation of the technique and styles of jazz dance.			
125 TAP DANCE I	1	F.S	
Formerly HPR 169 TAP DANCE I.			
Development of basic skills used in tap dancing.			
162 STUDIES IN MODERN DANCE I	3	F.S	
Cons inst. May be repeated max 6 hrs. Formerly HPR 166.			
Techniques and theory of modern dance.			
163 STUDIES IN BALLET	2	F.S	
HPR 123.02 or cons inst. May be repeated max 6 hrs.			
Formerly HPR 165 STUDIES IN BALLET.			
Intensive training in the technique, vocabulary and style of classical dance.			
164 DANCE FOR THE ELEMENTARY SCHOOL	2	S	
Formerly HPR 162 DANCE FOR THE ELEMENTARY SCHOOL.			
Rhythmic elements, patterns, skill in teaching creative and traditional activities for elementary school children.			
165 DANCE COMPOSITION-TRADITIONAL APPROACHES	2	F	
HPR 122.02. Formerly HPR 125 DANCE COMPOSITION-TRADITIONAL APPROACHES.			
Theory and practice in spatial, temporal and dynamic design applied to choreography.			
167 STUDIES IN MODERN DANCE II	3	F.S	
Cons inst. May be repeated max 6 hrs.			
Continued technical and theoretical development in modern dance.			
169 DANCE PRACTICUM I	1-2	F.S	
Successful audition for one or both of the American Heritage Dancers or the University Dance Theatre. Conc enroll dance technique course of cons inst req. May be repeated max 10 hours (5 hrs. may be counted toward dance maj).			
Practical experience in the areas of rehearsal, choreography, production and performance.			
260 SPECIAL METHODS IN DANCE I	3	F	
HPR 158.			
Basic principles and techniques of teaching dance in schools, studios, and agencies; planning lessons and assisting in selected dance activity classes.			
261.12 SOCIAL DANCE II	2	S	
Cons inst. Formerly HPR 269.			
Development of intermediate skills and techniques of ballroom and social dance; to expand understanding of basic couple movement concepts and teaching methods.			
261.22 SQUARE DANCE II	2	S	
Cons inst. Formerly HPR 267 SQUARE DANCE II.			
Advanced techniques in American square dance to include the mainstream level; techniques of square dance calling included.			
261.32 FOLK DANCE II	2	F	
Cons inst. Formerly HPR 268 FOLK DANCE II.			
Expanded repertoire of folk dances of varying difficulty			
			from diverse cultures with emphasis on interrelationship with other folk arts, geography and history.
266 NOTATION I	3	S	
Formerly HPR 263.			
Fundamentals of Labanotation; the recording of step patterns and gestures.			
267 MECHANICS FOR THE DANCER	3	S	
HPR 181 req. Formerly HPR 262.			
Application of basic anatomical and mechanical principles of motion to teaching and performance in dance; coordination with principles of conditioning and prevention of injuries in dance.			
268 DANCE ACCOMPANIMENT	2	F	
Formerly HPR 265.			
Principles and techniques of accompaniment for concert and classroom use. Introduction to rhythmic analysis, sound production, style survey, and coordination with teaching.			
295 HONORS SEMINAR	3	F.S	
Advanced readings and critical discussion of dance education with broad areas of concern in social, cultural, philosophical, and scientific bases.			
360 SPECIAL METHODS IN DANCE II	4	S	
HPR 260 or 158, or cons inst. Incl Clin Exp.			
Supervised clinical experiences in teaching dance to secondary school, studio, and agency populations; selection of materials and instructional strategies for these groups.			
361 TEACHING OF FOLK FORMS OF DANCE	2	S	
Formerly HPR 365 TEACHING OF FOLK FORMS OF DANCE.			
Methods of teaching folk and social dance forms in the secondary school, college, and recreational situation.			
364 DANCE ADMINISTRATION AND CURRICULUM DESIGN	3	F	
Formerly HPR 367 DANCE ADMINISTRATION AND CURRICULUM DESIGN.			
Techniques for the administration of dance in public schools, studios, universities, and community agencies; curriculum development and evaluation procedures for these groups; management skills for the arts.			
365 DANCE COMPOSITION: EXPERIMENTAL APPROACHES	2	S	
Previous experience in modern dance. Formerly HPR 368 DANCE COMPOSITION: EXPERIMENTAL APPROACHES.			
Progressive experiences in individual and group composition focusing on semi-structure and improvisation.			
366 HISTORY AND PHILOSOPHY OF DANCE I	3	F	
Formerly HPR 361 HISTORY AND PHILOSOPHY OF DANCE I.			
History, philosophy, and development of dance as a social and cultural medium from primitive times through the 16th century.			
367 HISTORY AND PHILOSOPHY OF DANCE II	3	S	
Formerly HPR 362.			
History, philosophy, and development of dance from the 17th century to the present. Approaches, styles, and contributions of leading dance personalities.			
368 PRINCIPLES OF DANCE PRODUCTION	3	S	
Formerly HPR 363.			

Principles of costuming, lighting, accompaniment, and related aspects in the production of dance performances.

Recreation and Park Administration Courses

115 OUTDOOR LIVING SKILLS 1 F.S

Formerly CAMP CRAFT I.

Techniques in skill development for successful living in the out-of-doors.

170 INTRODUCTION TO LEISURE AND RECREATION 3 F.S

Nature, scope, and significance of recreation and leisure. Introduction to the professional areas of recreation and leisure delivery systems.

171 RECREATION LEADERSHIP TECHNIQUES 2 F.S

HPR 170 req. Fieldwork req. Formerly TECHNIQUES IN SOCIAL RECREATION.

Leadership skills in recreation, conducting activities; developing activities for various recreation events. Activities for organizations and professional groups in a variety of settings.

172 CAMP LEADERSHIP 2 S

Experience in woodcraft skills, crafts, outdoor cookery, overnight trips, and other basic camp craft skills. Training for camp counselorships.

174 SCHOOL-COMMUNITY RECREATION 3 F

Emphasis on school and leisure service agency development of recreation programs using community schools.

270 COMMUNITY SPORTS ORGANIZATION 3 S

Purposes, objectives, organization and administration of team and individual sports; their role in community recreation.

271 RECREATION PROGRAMMING 2 F.S

HPR 171 req. Formerly RECREATION LEADERSHIP.

Planning, organizing, promoting, and evaluating recreation programs for a variety of clientele and leisure service delivery agencies.

273 INTRODUCTION TO THERAPEUTIC RECREATION 3 F

Foundation concepts of recreation as therapy; internal organization of treatment settings; unique contributions of recreation in treatment and rehabilitation processes.

274 LEISURE SERVICES FOR THE AGED 3 S

Role of leisure services as related to understanding and working with older adults. Emphasis on recreation programming as a mode of treatment.

275 PLANNING AND DESIGN OF RECREATION FACILITIES 3 F

Discussion of and practice in techniques and principles of site planning, design, and development of recreation facilities in parks and other outdoor recreation settings.

276 PARK MAINTENANCE 3 S

Exploration of facility and grounds maintenance as a management function. Discussions will center on equipment, materials, and methods used in maintaining indoor and outdoor recreation facilities and areas.

279 CLINICAL ASPECTS OF THERAPEUTIC RECREATION 3 S

HPR 273 or cons inst req.

Survey of basic competencies associated with the clinical conduct of therapeutic recreation, including assistive techniques, leisure facilitation methods and treatment plan preparation.

295 HONORS SEMINAR 3 F.S

Advanced readings and critical discussion of recreation with broad areas of concern in social, philosophical, and scientific bases.

298.01 PROFESSIONAL PRACTICE: PROGRAM PRACTICUM 2 S. Summer

HPR 271 or cons inst req. Jr. standing rec.

Application of knowledge and skills in recreation programming to practical situations within a leisure service delivery system.

358 CAMP LEADERSHIP PRACTICUM WITH HANDICAPPED ADULTS 3 Summer

Cons inst req. Students are required to live at the camp and sign a counselor conduct contract.

Practical experiences in camp counseling and development of leadership skills with adult handicapped persons.

359 CAMP LEADERSHIP PRACTICUM WITH THE DISADVANTAGED CHILD 3 Summer

Cons inst req. Students are required to live at the camp during the practicum.

Practical experiences in camp counseling and administration in a resident group setting with disadvantaged children.

370 RECREATION FOR SPECIAL POPULATIONS 3 F.S

Materials for leadership techniques for conducting recreation for special groups, including mental and physically handicapped, aged, juvenile delinquents, armed forces, prisons, and hospitals.

371 PARK AND RESOURCE MANAGEMENT 3 F.S

Planning and operational procedures in acquiring, developing, and managing recreation and park areas and facilities.

372 CAMP LEADERSHIP PRACTICUM WITH PHYSICALLY HANDICAPPED 3 Summer

Cons chair SED and chair HPR req. May be repeated.

Counseling experience in a summer camp for physically handicapped children. Conferences on planning of daily activities, equipment and general program.

374 OUTDOOR EDUCATION 3 F.S

Principles and policies underlying public and school-related programs and materials in outdoor education.

375 RECREATION AND PARK ADMINISTRATION 3 F.S

HPR 298.01 req.

Administrative/management functions in the operation of organized recreation and leisure delivery systems.

378 SEMINAR IN PROFESSIONAL PRACTICE 2 F.S

HPR 298.01, Sr standing req. Formerly HPR 278 SEMINAR IN INTERNSHIP.

Orientation to the expectations and problems encountered in senior professional practice in recreation and park administration. Formal application and placement of practicum students.

398 PROFESSIONAL PRACTICE: INTERNSHIP IN RECREATION AND PARK ADMINISTRATION 1-14

HPR 378, 2.2 GPA for ISU coursework.

Supervised in-service practice under the guidance of professionally qualified personnel in leisure service agencies and University faculty.

HEALTH SCIENCES (HSC)

103 Moulton Hall

Chairperson: Charles T. Spencer.

Faculty: Professor: Rabe, Nolte. Associate Professors: Spencer, Weller. Assistant Professor: Corsaut, Gruber, Kasa, Knuckles, Morris, Nyveide, Russelmann, Smith. Instructors: Keyser, Moonsammy, Nadakavakaren. Lecturers: Korb, Martens, Smith, Tholen. Adjunct Faculty: Chow, Cortese, Folkens, Taraska.

Environmental Health Programs

Degree Offered: B.S.

COMPREHENSIVE ENVIRONMENTAL HEALTH MAJOR

Students entering this program must plan their schedules in consultation with a faculty member of the Environmental Health Program in the Department of Health Sciences. 53 semester hours are required in Environmental Health and specific related fields. In addition, 48 semester hours of extra-departmental courses are required to provide a basis for the professional courses. The Comprehensive Major in Environmental Health is divided into two sequences: The Sanitarian Sequence and the Industrial Hygiene Sequence. The purpose of the sequences is to provide students with specific types of educational experiences (course work and field practice) which will prepare them for similar but separate occupations within environmental health practice.

Sanitarian Sequence: Required courses (40 hours): HSC 251, 252, 253, 254, 255, 258, 294, 350, 351, 355, 398; SAS 240. In addition, 13 hours are to be selected from: HSC 150, 287, 289 (Environmental Toxicology), 289 (Solid and Hazardous Waste Management), 389 (Environmental Health Impact Analysis); CHE 280; BSC 361; IT 171, 372, 378; and HPR 182. At least 6 hours are to be selected from the HSC courses. The following courses that may be completed as University Studies or general electives are required to provide a basis for the professional courses: BSC 190, 260, 294, 181; CHE 140, 141, 220; COM 110, ENG 249; MAT 110; PHY 105; PSY 111 or SAS 106.

Industrial Hygiene Sequence: Required courses (39 hours): HSC 252, 253, 256, 257, 258, 350, 357, 398; CHE 215; IT 370; SAS 240. In addition, 13 hours are to be selected from: HSC 150, 251, 254, 255, 287, 289 (Solid and Hazardous Waste Management), 289 (Environmental Toxicology), 355, 389 (Environmental Health Impact Analysis); BSC 361; CHE 280; IT 171, 372. At least 6 hours of the electives are to be selected from the HSC courses. The following courses that may be completed as University Studies or general electives are required to provide a basis for the professional courses: BSC 181, 182, 190, 260; CHE 140, 141, 220; COM 110; ENG 249; MAT 110; PHY 105; PSY 111 or SAS 106.

MINOR IN ENVIRONMENTAL HEALTH

- 20 semester hours of Environmental Health courses are required. Several of these courses have biology, chemistry, or physics prerequisites. Probable prerequisites include: BSC 190, 260; CHE 140, 141, 220; and PHY 105 or their equivalents.
- Required HSC courses (12 hours): HSC 150, 251, 252, 350.
- 9 semester hours of electives selected from: HSC 253, 254, 255, 289 (Environmental Toxicology), 289 (Solid and Hazardous Waste Management) 351, 355, 389 (Environmental Health Impact Analysis).

Health Education Programs

Degrees Offered: B.A., B.S., B.S. in Ed.

MAJOR IN HEALTH EDUCATION

- 37 hours required. Part of entitlement program leading to certification: Secondary (6-12).
- Required courses (26 hours): BSC 160, 181, 182, HSC 190, 288, 290 (4 hours), 296.
- Additional electives (11 hours) must be selected in consultation with an adviser with at least one course from four of the following ten groups, with 189, 289, or 389 courses substituting as approved.

1. Growing and Developing Organisms: PSY 112; C&I 210.
2. Ecological Relationships: HSC 150, 155; BSC 202.
3. Disease Control: BSC 201, 260.
4. Human Sexuality and Family Life: HEC 131, 231; PSY 123 or SAS 123.
5. Food Practices and Eating Patterns: AGR 101; HEC 106.
6. Consumer Health Sources and Resources: HSC 100; BEA 330 or HEC 330.
7. Safety: IT 171; HPR 180; HSC 256.
8. Mood Modifying Substances: IT 371; HSC 390.
9. Personal Health Practices: BSC 145; HEC 212.
10. Mental and Emotional Health: PSY 131, 232; SAS 131.

All Health Education majors planning to become certified teachers must apply for and be admitted to the University's Teacher Education Program (see Teacher Education Program section of Catalog). To apply for admission to the program, the student must contact a departmental adviser, complete a departmental application and a projected program plan, and participate in a personal interview. Prior to enrolling in Student Teaching (HSC 399), the student must attend university and departmental orientation meetings and complete a university and departmental application. To be eligible to enroll in Student Teaching (HSC 399), the student must have been admitted to the University's Teacher Education Program.

All non-teaching Health Education majors should complete the following program:

- Required courses (26 hours): BSC 181, 182; HSC 190, 290 (4 hours), 292, 296, 297, 392.
- Additional electives (11 hours) must be selected in consultation with an adviser with at least one course from four of the ten groups listed above. In addition, an internship experience agreed upon by the student and coordinator of health education professional practice must be completed.

Community and Public Health Sequence: Required courses (37 hours): BSC 121, 190, 216, 219, 260, 304, 361, 283 or 360 or 383; HSC 259 (3 hours), 292, 297. Chemistry through

organic chemistry and one year of general physics also required. In addition, an internship experience agreed upon by the department must be completed. Additional courses in communication, health sciences, psychology, philosophy, and sociology-anthropology-social work should be elected in consultation with an adviser.

MINOR IN HEALTH EDUCATION

- 30 hours required.
- Required courses (20-22 hours): Either HPR 181 and 182 or BSC 181 and 182; BSC 160; HSC 190, 290 (4 hours), 296.
- Elective courses (8-10 hours) selected from HSC 288, 292, and at least one course from two of the ten groups listed under the major, with 189, 289, and 389 courses substituting where applicable.

Medical Record Administration Program

Degree Offered: B.S.

COMPREHENSIVE MEDICAL RECORD ADMINISTRATION MAJOR

Admission Requirements: All students admitted to the Medical Record Administration program are required to go through a special admission process. A projected program for each applicant must be planned in consultation with a faculty member of the Medical Record Administration program. In addition, each applicant must have successfully completed or be enrolled in approved preprofessional courses. A GPA of 2.5 is required for admission and retention in the program. Graduates of the program are eligible, and are expected to write the National Registration Examination administered by the Psychological Corporation. Those who pass the registration examination are entitled to use the designation RRA (Registered Record Administrator) after their names.

Accreditation: The program is accredited by the Committee on Allied Health Education and Accreditation of the American Medical Association in collaboration with the American Medical Record Association.

- 40 hours of professional coursework plus 25 hours of preprofessional courses as specified below for admission to the program. Note: Because of prerequisites or lack of prior skill, this major may require more hours than indicated.
- Required professional courses: HSC 100, 105, 200, 201, 202, 210, 211, 220, 230, 248, 300, 310, 340, 348.
- Preprofessional courses required for admission to the program include: BSC 160, 181, 182; CHE 104 or 110; and courses approved by a faculty adviser in the Medical Record Administration Program in statistics, data processing, and business organization and management. Note: Non-business majors who desire to elect more than 25 percent (30 credits) of their course work in business must meet all College of Business requirements for graduation.
- Students must have a 45 word-per-minute typing proficiency.

Medical Technology Program

Degree Offered: B.S.

COMPREHENSIVE MEDICAL TECHNOLOGY MAJOR

- 49 hours of preprofessional courses as specified below plus 32 hours of clinical residency. Note: Because of prerequisites or lack of prior skill, this major may require more hours than indicated.
- Required preprofessional courses: HSC 260; BSC 190, 216, 260, 283, 361; CHE 140, 141, 215, 220, 242; MAT 110. Strongly recommended courses: BSC 219; PHY 105 or 108; HSC 160, 261, 262.
- Required clinical residency: 32 hours of clinical courses in an AMA-NAACLS (National Accrediting Agency for Clinical Laboratory Sciences) approved hospital school of medical technology affiliated with Illinois State University. The required professional courses are: HSC 362, 363, 364, 365, 366, 367, 368, and 369. Specific credit hours for each course are determined by the hospital schools of medical technology.

All students admitted to the Medical Technology Program are required to go through a special admission process. A student should plan the specific program of study in consultation with a faculty member of the Medical Technology Program in the Department of Health Sciences. Seminars and independent study are available for students desiring additional study. Students must apply for acceptance into a hospital for the clinical residency. The twelve-month residency involves work in several laboratory departments and technical instruction in hematology, clinical chemistry, blood banking, pathogenic microbiology and other aspects of laboratory medicine. Graduates of the program are eligible and are expected to write a national registry examination.

Health Sciences Courses

100 INTRODUCTION TO THE HEALTH COMMUNITY 3 US-7 F.S.Summer

Health care facilities and agencies, their organizational patterns, financing and regulations; the role of health related professionals, their interrelationships and responsibilities.

105 MEDICAL TERMINOLOGY 3 F.S.Summer

Study of basic language related to medical science and allied health specialties with emphasis on word analysis, construction, definitions, pronunciation, spelling and standard abbreviations.

150 INTRODUCTION TO ENVIRONMENTAL HEALTH 2 F.S. CHE 140-141, BSC 190 or equiv. Lectures.

Survey of environmental health topics designed to acquaint the student with the broad scope of environmental control and the interrelationship of individual programs in a comprehensive environmental health organization.

155 MAN AND ENVIRONMENT: A HEALTH PERSPECTIVE 3 US-7 F.S.Summer

Not for credit maj min.

Provides students with a conceptual framework for the study and analysis of man-environmental health problems in daily activities.

156 APPLIED FOOD SERVICE SANITATION 2 F

Not for credit Env. Health maj min. Also offered as HEC 156.

A review of the practices and laws governing the sanitation of Food Service facilities.

160 INTRODUCTION TO MEDICAL TECHNOLOGY	2	F.S.Summer	
<i>Cons inst.</i>			
Study of profession of Medical Technology emphasizing origin, goals, organizational structure, professional requirements, interrelationships with other professions, professional ethics, and considerations for future.			
190 FOUNDATIONS OF HEALTH EDUCATION	3	F.S	
<i>Health Education maj min only.</i>			
The historical and philosophical perspectives of the development of health education. A comparison of the major concepts and theories of health and characteristics of health education programs in schools and communities.			
191 WELL BEING AND THE HEALTH OF WOMEN	3	F	
<i>Formerly HPR. 191.</i>			
Identification and investigation of contemporary personal and health concerns of the American woman, including observation of alternative life styles.			
194 HEALTHFUL FAMILY LIVING	2	US-7	F.S
Introduction to the health of the family as illustrated through illness patterns, stress, abuse, and health behavior.			
196 DRUGS AND LIFE STYLES	2	US-7	F.S
An examination of human, social, and cultural issues surrounding the problems of drug abuse. Personal motivations and behaviors are identified.			
200 HEALTH INFORMATION MANAGEMENT	3	F.S	
<i>HSC 100, 105, 210. Maj only or cons inst.</i>			
<i>Materials charge optional.</i>			
Practical applications of word processing and management concepts to health record systems.			
201 FUNDAMENTALS OF MEDICAL SCIENCE I	3	F	
<i>HSC 100, 105; BSC 181, 182. Maj only.</i>			
Relationship between human organism and disease processes, including treatment and management of patients.			
202 FUNDAMENTALS OF MEDICAL SCIENCE II	3	S	
<i>HSC 201.</i>			
Continuation of HSC 201.			
210 INTRODUCTION TO MEDICAL RECORDS ADMINISTRATION	3	F.S	
<i>Materials charge optional.</i>			
A survey of the history of medical records and the profession. Analysis of record content, stressing accuracy, completeness, and correlation of data. Numbering and filing systems with emphasis on retention policies and storage methods.			
211 NOSOLOGY AND HEALTH DATA MANAGEMENT	3	F.S	
<i>HSC 100, 105, 200, and SAS 240 or PSY 240. Maj only.</i>			
A study of disease and operative classification systems and specialized medical nomenclatures. Analysis of data collection and retrieval. Computation of hospital statistical data.			
220 ORGANIZATION AND MANAGEMENT OF RECORD CENTERS	3	F.S	
<i>HSC 100, 105, 200; MAM 220. Maj only.</i>			
Application of principles of organization and management to development and administration of health record centers.			
230 LAW, HEALTH CARE, AND DOCUMENTATION	2		F.S
<i>HSC 100, 105, 210. Maj only.</i>			
Federal, state, and local laws governing the preparation and use of medical records.			
248 DIRECTED PRACTICE	2	F.S.Summer	
<i>Maj only or cons inst.</i>			
Student assignment to medical records centers for direct experience.			
251 HYGIENE OF HOUSING AND RESIDENTIAL ENVIRONMENTS	3		F
<i>CHE 140-141, BSC 190, PHY 105.</i>			
Principles of healthful housing; building codes, standards, housing ordinances, appraisal methods, urban planning, insect/rodent control, individual water and sewage treatment, energy conservation, and housing rehabilitation.			
252 ENVIRONMENTAL HEALTH ASPECTS OF WATER AND WASTEWATER	3		F
<i>CHE 220, BSC 260. Lecture and laboratory. Materials charge optional.</i>			
Evaluation of sources of water supply, quantity and quality requirements, changes affected by water use; current and developing techniques for individual and community water supply and wastewater management.			
253 INTRODUCTION TO OCCUPATIONAL HEALTH	3		F
<i>CHE 140-141, 220 or 230; HPR 182 or BSC 181. Not for credit if had HSC or IT 356. Lecture and laboratory.</i>			
Study of health problems encountered in industry and various occupations, including adverse conditions of temperature, humidity, noise, radiation, chemical and physical irritants.			
254 CONTROL OF INSTITUTIONAL ENVIRONMENTS	3		S
<i>CHE 140-141, 220 or 230; BSC 190, 260; or equiv. Lecture and laboratory.</i>			
Environmental health aspects of hospitals, nursing homes, penal institutions, schools, colleges and universities. Control of physical, chemical and microbiological hazards.			
255 CONTROL OF RECREATIONAL ENVIRONMENTS	3		S
<i>BSC 260 and CHE 220 or equiv. Lecture and Laboratory. Conc reg rec with HSC 254.</i>			
Environmental health aspects of planning, operation and control of recreational facilities. Facilities covered include swimming facilities, campgrounds, amusement areas, playgrounds, and mass gatherings.			
256 OCCUPATIONAL PHYSICAL HEALTH HAZARDS AND THEIR CONTROL	3		S
<i>HSC 253. Lecture and laboratory. Materials charge optional.</i>			
A study of radiation, noise, and temperature stresses in the occupational environment which includes health effects and control.			
257 OCCUPATIONAL AIR CONTAMINANTS AND THEIR CONTROL	3		S
<i>HSC 253. Lecture and laboratory. Materials charge optional.</i>			
A study of air contaminants found in the occupational environment which includes health effects, monitoring, and control.			
258 EPIDEMIOLOGY	3		F
<i>BSC 160 or BSC 260, MAT 110 req.</i>			

Principles and methods governing the surveillance and investigation of disease and injury in human populations.

259 HEALTH CENTER 1-6
HSC 292.

Health legislation, services, and education programs.

260 INTRODUCTION TO THE MEDICAL LABORATORY: IMMUNOHEMATOLOGY AND SEROLOGY 4 F.S. Summer
CHE 215, enrollment in Med Tech prgrm or cons inst.

Lecture and laboratory. Materials charge optional.

The principles and procedures of immunohematology (blood banking) and serology.

261 INTRODUCTION TO THE MEDICAL LABORATORY: HEMATOLOGY 3 F.S.
CHE 215, BSC 260, enrollment in Med Tech prgrm or cons inst. Lecture and laboratory. Materials charge optional.

Investigation of observable phenomena that provide basis for tests used as aids to diagnoses of disease processes. Uses, misuses and limitations of laboratory equipment are considered.

262 INTRODUCTION TO THE MEDICAL LABORATORY: APPLIED CLINICAL ANALYSIS 3 F.S.
CHE 215, BSC 216, enrollment in Med Tech prgrm or cons inst. Lecture and laboratory. Materials charge optional.

The principles and procedures of chemical analysis of body fluids in the clinical laboratory. The use of clinical instrumentation is stressed.

288 SCHOOL HEALTH 2or4 F.S.
BSC 145, HSC 190, 290.01. Health Education Teaching majors required to take 4 hours. Health Education minors and non-teaching majors should enroll for 2 hours. Formerly BSC 248 and HSC 298.

An overview of the school health program, with special emphasis on the health needs of school-age children. The investigation of materials and methodologies appropriate for health education.

290 CONTINUING SEMINAR IN HEALTH EDUCATION 1 F.S.

Health Education maj min only. Must be repeated for max 4 hours credit as 290.01, 290.02, 290.03, and 290.04. C&I 200 (6 hours) or 200.03 (grade of C or better req.) or 215 (2 hours) req or conc reg req. Incl Clin Exp.

Experiences including agency and laboratory visitations; communication of new methods and materials; synthesis of interdisciplinary experiences; and student advisement.

292 COMMUNITY PUBLIC HEALTH 2 F.S.
Introduction to public health at local, state, and national levels, including the relationships among public health departments, voluntary health agencies, and schools. Includes emphasis on selected community health problems.

294 HEALTH EDUCATION AND ENVIRONMENTAL QUALITY 3 S

Role of health education in an individual's relationships with other persons, technology and culture, and the quality of environment generated.

295 HONORS SEMINAR 3 F.S.

Advanced readings and critical discussion of health education with broad areas of concern in social, cultural, philosophical, and scientific bases.

296 HUMAN POTENTIAL AND HEALTH EDUCATION 3 F.S.
HSC 190 and 1 hr. of HSC 290 or cons inst.

An examination of the physical, mental-emotional and social dimensions of growing and developing, interacting, and decision-making. The interrelationships of these life processes, determinants of health, will be used to illustrate how man may further develop quality of life through health education.

297 MODERN HEALTH PROBLEMS 3 S

Emphasis on recent developments in selected critical health areas and their application to individual health habits and attitudes.

300 MEDICAL INFORMATION SYSTEMS DESIGN 3 F.S.
HSC 220, ACC 260. Maj only.

Application of computer technology to the health sciences, systems analysis; medical audits and quality assurance programs.

310 MEDICAL RECORDS ADMINISTRATION SEMINAR 2 F.S.

HSC 211, 220 req. Maj only.

Literature survey and intensive exploration of effective methods of identifying and solving problems encountered in the administration of health record centers.

340 TRENDS IN HEALTH CARE DELIVERY 3 F.S.

HSC 210, 211, 220 and/or cons of inst req.

Intense analysis of emerging nontraditional and specialized health care facilities; their organizational patterns, accreditation standards, legal requirements and special documentation needs. Site visits and reports required.

348 CLINICAL PRACTICUM AND RESIDENCY 4 F.S. Summer

Maj only and cons program director req.

Rotation and project assignments in medical record centers in Illinois area health facilities.

350 FOOD PROTECTION AND SANITATION 3 F

BSC 260, CHE 220 or equiv req. Lecture and laboratory. Materials charge optional.

An intensive study of the laws, principles, and techniques applied in the protection of food and milk for human consumption.

351 ENVIRONMENTAL HEALTH SEMINAR 1 F.S.

Cons program director. May be repeated once. Senior standing. Maj in Env Hlth Program.

Supplement to formal coursework dealing with contemporary topics in environmental pollution, occupational health and institution environmental quality administration. Content will vary at discretion of instructor.

355 ENVIRONMENTAL HEALTH DECISION PROCESSES 3 S

Sr maj in Env Hlth prgrm or cons inst. Lecture.

An intensive study of the decision making techniques, organizational structure, inter-agency relationships, program methodologies, and legal aspects of environmental health practice.

356 OCCUPATIONAL HEALTH FOR SAFETY PROFESSIONALS 3 F.S.

Not for credit Env Health maj min or if had HSC 253.

Also offered as IT 356.

A study of the relationships, effects and methods of control of chemical, microbiological, radiological and physical hazards and stresses on the health, efficiency and well-being of employees.

357 OCCUPATIONAL HYGIENE FIELD SURVEY TECHNIQUES 3 F
HSC 256, 257. Lecture and laboratory. Materials charge optional.

Application of the techniques for identifying, evaluating, and controlling health hazards in the occupational environments.

360 SEMINAR IN MEDICAL TECHNOLOGY 2 F.S.
CHE 215, BSC 216, 260, enrollment in Med Tech program req.

Review of current literature in clinical laboratory science and the development of a research paper and/or project.

361 IML - COAGULATION AND HEMOSTASIS 2 F.S.
CHE 220 or equiv and BSC 216 req.

Principles and procedures of blood coagulation and hemostasis.

362 CLINICAL BIOCHEMISTRY 1-10 F.S.Summer
90 hours including University Studies and the following required courses: HSC 260; BSC 190, 216, 260, 261, 283; CHE 140, 141, 215, 220, 242; MAT 110. Acceptance into an affiliated hospital School of Medical Technology. May be repeated. Max 10 hrs.

Concentrated laboratory instruction and theoretical applications of clinical biochemistry. Current testing procedures, instrumentation, and quality assurance are studied.

363 CLINICAL SEROLOGY AND IMMUNOLOGY 1-5 F.S. Summer

90 hours including University Studies and the following required courses: HSC 260; BSC 190, 216, 260, 261, 283; CHE 140, 141, 215, 220, 242; MAT 110. Acceptance into an affiliated hospital School of Medical Technology. May be repeated. Max 5 hrs.

Basic immunology, serological reactions, and current serology testing procedures are covered. A concentrated laboratory experience is included.

364 CLINICAL URINALYSIS AND MICROSCOPY 1/2-4 F.S.Summer

90 hours including University Studies and the following required courses: HSC 260; BSC 190, 216, 260, 261, 283; CHE 140, 141, 215, 220, 242; MAT 110. Acceptance into an affiliated hospital School of Medical Technology. May be repeated. Max 4 hrs.

Lecture and laboratory experience and routine and special urinalysis procedures. Basic microscopy use and maintenance are emphasized.

365 CLINICAL PARASITOLOGY 1/2-3 F.S.Summer

90 hours including University Studies and the following required courses: HSC 260; BSC 190, 216, 260, 261, 283; CHE 140, 141, 215, 220, 242; MAT 110. Acceptance into an affiliated hospital School of Medical Technology. May be repeated. Max 3 hrs.

General techniques for identification of clinically significant parasites and yeast. Morphology, symptomatology, and epidemiology are stressed. A concentrated laboratory experience included.

366 SPECIAL TOPICS 1/2-4 F.S.Summer
90 hours including University Studies and the following required courses: HSC 260; BSC 190, 216, 260, 261, 283; CHE 140, 141, 215, 220, 242; MAT 110. Acceptance into an affiliated hospital School of Medical Technology. May be repeated. Max 4 hrs.

Selected topics of professional significance. May include

management, pathology, medico-legal aspects, and basic teaching principles.

367 CLINICAL HEMATOLOGY 1-6 F.S.Summer
90 hours including University Studies and the following required courses: HSC 260; BSC 190, 216, 260, 261, 283; CHE 140, 141, 215, 220, 242; MAT 110. Acceptance into an affiliated hospital School of Medical Technology. May be repeated. Max 6 hrs.

Study of formed elements of blood under normal and stress conditions. Abnormalities and basic morphological changes due to disease states are studied. Study of coagulation principles is included.

368 CLINICAL MICROBIOLOGY 1-9 F.S.Summer
90 hours including University Studies and the following required courses: HSC 260; BSC 190, 216, 260, 261, 283; CHE 140, 141, 215, 220, 242; MAT 110. Acceptance into an affiliated hospital School of Medical Technology. May be repeated. Max 9 hrs.

Comprehensive medical microbiology. Included are taxonomy of pathogens, identification, culture methods and procedures, and antibiotic sensitivity testing.

369 CLINICAL IMMUNOHEMATOLOGY 1-5 F.S.Summer
90 hours including University Studies and the following required courses: HSC 260; BSC 190, 216, 260, 261, 283; CHE 140, 141, 215, 220, 242; MAT 110 req. Acceptance into an affiliated hospital School of Medical Technology. May be repeated. Max 5 hrs.

Theory and practice of immunohematology. Includes study of blood groups, compatibility testing, hemolytic disease of the newborn, blood transfusion, and component preparation.

370 MEDICAL AND TECHNOLOGY UPDATE 3 F.S.
Grad from a school or clinical lab science or cons inst req. Not for grad cr. May be repeated if content different.

New information on selected topics in clinical laboratory science for practicing laboratorians.

390 MOOD MODIFYING SUBSTANCES AND THEIR EDUCATIONAL IMPLICATIONS 3F. Summer

Psychological, social, medical, legal and economic aspects of use, misuse and abuse of substances will be explored along with the implications for education.

391 ADMINISTRATION OF SCHOOL HEALTH PROGRAMS 3 F

Development and organization of school health programs including services, environment, and instruction.

392 VALUES AND HEALTH 3 S
Exploration of the valuing process and its relationship to health and health education. Development of skills and techniques of value clarification for use in health education with clients.

394 HEALTH ASPECTS OF AGING 3 F.S.
SAS 211 req. Also offered as HPR 394 and HEC 394. Materials charge optional.

A study of the characteristics of the aging process and factors influencing adaptation and the quality of living.

398.01 PROFESSIONAL PRACTICE: ENVIRONMENTAL HEALTH INTERNSHIP 3-12 F.S.Summer
Cons prgrm dir req. May be repeated. Max 12 hrs.

Formerly SUPERVISED FIELD INTERNSHIP IN ENVIRONMENTAL HEALTH and AHP 398.

Planned, supervised experience in a governmental, industrial or institutional organization, providing on-the-job training and introduction to a career in an environmental health program.

**398.02 PROFESSIONAL PRACTICE:
FIELD EXPERIENCE
IN HEALTH EDUCATION 2-9 F.S. Summer**

2.5 GPA in major; HSC 290.01, 290.02 req.

Extended field and in-service experience under the guidance of qualified personnel in health education.

HOME ECONOMICS (HEC)

144 Turner Hall

Chairperson: Bessie D. Hackett.

Faculty: Professors: Hackett, Smith. Associate Professor: Carr, Hale-Sprengle. Assistant Professors: Batsche, Benardot, Bremer, Hayden, Ireland, Jett, Stemm, Upton, Webb-Lupo. Instructors: Cantlon, Garner, Gentry, Gosch, Harshbarger, Klitzke, Lane, Stahl.

Home Economics Programs

Degrees Offered: B.A., B.S., B.S. in Ed.

COMPREHENSIVE HOME ECONOMICS MAJOR

— 52 hours of Home Economics and specified according to each sequence.

Child Development and Family Relationships Sequence: Core requirements: HEC 110, 114, 116, 117, and 115 or 118. Sequence requirements: HEC 231, 250, 307, 308, 309, 310, 398 (2 consecutive semesters, 3 hours each); 11 remaining semester hours selected with adviser approval from ART 101, 111; BSC 204.; COM 170, 225; CJS 322; C&I 300, 301 or 312; EAF 331; HPR 162; HSC or HEC 156, 292; HEC 115 or 118, 212, 287, 312, 314, 394, 389 (of Work and Families); IT 128; MUS 270; PSY 123 or SAS 123; PSY 301, 303, 305, 347, 365; SED 220, 347; SAS 221, 223, 323, 325, 335, 342. Following courses are strongly recommended as University Studies or as general electives: COM 123, 240; PSY 111, 112; SAS 180, 261, 262; SED 109.

Consumer Services Sequence: Core requirements: HEC 110, 114, 115, 116, 117, 118. Sequence requirements: 31 remaining semester hours selected with adviser approval; it is strongly recommended that HEC 232, 287, 320, 330, 331, 343, 398 be selected. Appropriate experimental courses and workshops may be substituted for the above courses with the approval of the department chairperson as HEC 393 (Utilization of Community Consumer Resources), 393 (Consumer Household Appliance Alternatives). Remaining semester hours selected from any other HEC course except 203, 301, 304, 380, 382; BEA 101, 140, 240 or ENG 249, 335; COM 162, 163, 165; FAL 210; MAM 220, 230, 231, 232, 233. Following courses are strongly recommended as University Studies or as general electives: ACS 140; BEA 100; CHE 102; COM 160; ECO 100, 101; IT 171.

Foods-Nutrition or Dietetics Sequence: Core requirements: HEC 110, 114, 116, 117, 118. Sequence requirements: CHE 110, 112; HEC 213, 216, 311, 316, 320, 398; remaining semester hours selected with adviser approval from ACS 168 or 289 (Intro Microcomputers); BSC 160 or 260; CHE 242; COM 240, 241, 365; HPR 182; HSC or HEC 156; HEC 115, 287,

312, 313, 319, 394. Following courses are strongly recommended as University Studies or as general electives: CHE 220; COM 160, 167; ECO 100; HPR 182; PSY 111, 131.

Housing and Environmental Design Sequence: Core requirements: HEC 110, 114, 115, 117, 118. Sequence requirements: ART 352, 372; HEC 218, 242, 338, 340, 345, 370, 375, 398; IT 211. The following courses are strongly recommended as University Studies or as general electives: ART 103, 155, 156 or 369, 226, 227, 378, 380, 381, 382; HEC 116, 323, 343, 347, 389 (Antiques in Interior Design), 389 (Environmental Lighting); IT 221; MAM 230, 234.

Fashion Merchandising Sequence: Core requirements: HEC 110, 114, 115, 117, 118. Sequence requirements: ART 103 or 111; HEC 122, 249, 398; MAM 230; Min. of 4 of the following HEC courses 116, 220, 221, 222, 228, 229, 322, 323, 324, 326, 327, 328, 338; Min. of 2 of the following MAM courses 233, 234, 335. Following courses are strongly recommended as University Studies or as general electives: ACC 131, 132; CHE 104 or 110; ACS 140; ECO 100, 101; PSY 111; SAS 106. Students interested in Fashion Design should elect ART 104, 213, 214; HPR 181; HEC 220, 222, 228, 322, 324 as additional courses toward graduation.

General Home Economics Sequence: Core requirements: HEC 110, 114, 115, 116, 117, 118. Sequence requirements: HEC courses selected with the consultation of an academic adviser.

COMPREHENSIVE HOME ECONOMICS EDUCATION MAJOR

— 55 hours in Home Economics and specifically related fields required. Minimum of 8 hours in at least 3 sequence areas required. Part of entitlement program leading to certification: secondary 6-12.

— Required courses: HEC 110, 114, 115, 116, 117, 118, 122, 203, 213, 382; ART 103 or 111.

Students who have not had high school laboratory courses in biological and physical sciences are urged to include one or more courses in each area to meet University Studies requirements. Courses for Early Childhood Education certification (early childhood below 6 years of age) can be combined with this comprehensive major, (see Minor in Early Childhood Education for course requirements). The student must also complete General Education Requirements for high school, and Professional Education Requirements for high school (see Teacher Education Program Requirements-High School).

Selective Admission-Retention Policy for the Teacher

Education Programs in Home Economics Education

Selective Admission: All home economics education majors planning to become certified teachers must apply for and be admitted to the University's Teacher Education Program (see Teacher Education Admission-Retention Program section of this catalog). Upon applying for admission a home economics major must have verified the following:

1. A minimum GPA of 2.2 overall and in all Home Economics courses including Professional Education courses.
2. A positive recommendation for Admission to Teacher Education by all Home Economics faculty. See departmental adviser for procedure.

Selective Retention: In order to receive departmental approval for a student teaching assignment the student must verify the following:

1. Maintain a GPA of 2.2 in all courses and in all Home Economics courses including Professional Education courses.
2. Completion of home economics courses 110, 114, 115, 116, 117, 118 or the equivalent for transfer students.
3. A plan for working toward a minimum of 8 hours in at least 3 sequence areas for a comprehensive major and 2 sequence areas for a major.

MAJOR IN HOME ECONOMICS

— 37 hours in Home Economics and specified according to each sequence.

Child Development and Family Relationships Sequence: Core requirements: HEC 110, 114, 116, 117. Sequence requirements: HEC 231, 250, 307, 308, 309, 310; 6 remaining semester hours selected with adviser approval from HEC/HSC 156; HEC 115, 118, 212, 287, 314, 389 (Of Work and Families), 394, 398; SAS 323.

Consumer Services Sequence: Core requirements: HEC 110, 114, 115; 116, 117, 118. Sequence requirements: 16 remaining semester hours selected with adviser approval; it is strongly recommended that HEC 232, 287, 320, 330, 331, 343, 398 be selected. Appropriate experimental courses and workshops may be substituted for the above courses with the approval of the department chairperson as HEC 393 (Utilization of Community Consumer Resources), 393 (Consumer Household Appliance Alternatives). Remaining semester hours selected from any other Home Economics course except 203, 301, 304, 380, 382. Following courses are strongly recommended as University Studies or as general electives: ACS 140; BEA 100, 240; CHE 102; ECO 100, 101; IT 171. A minor in Business Administration or Public Relations is highly recommended.

Foods-Nutrition or Dietetics Sequence: Core requirements: HEC 110, 116, 117, 118. Sequence requirements: CHE 110, 112; HEC 213, 216, 311; remaining semester hours selected with adviser approval from ACS 168 or 289 (Intro to Microcomputer); COM 240, 241; HEC/HSC 156; HEC 114, 115, 287, 312, 313, 316, 319, 320, 394, 398; HPR 182. Students interested in Dietetics must complete the following courses for American Dietetics Association (ADA) transcript evaluation: ACS 168 or 289 (Intro Microcomputers); BSC 160; CHE 220, 242; COM 110, 225, 240, 297; C&I 216; ECO 100, 101; HPR 182; HEC 312, 316, 319, 320, 398; MAM 220; MAT 105 or 107; PSY 111, 215, 240; SAS 106, 180. Following courses are strongly recommended as University Studies or as general electives: BSC 145; COM 160, 167, 241; PSY 131.

Housing and Environmental Design Sequence: Core requirements: HEC 110, 115, 117, 118. Sequence requirements: ART 372; HEC 338, 340; IT 211; 10 remaining semester hours selected from ART 103, 352, 369, 378, 380, 381, 382, HEC 114, 116, 218, 242, 248, 343, 347, 389 (Environmental Lighting), 389 (Antiques in Interior Design); IT 221; MAM 230, 234.

Fashion Merchandising Sequence: Core requirements: HEC 110, 115; Min. of 2 courses from HEC 114, 116, 117, 118. Sequence requirements: ART 103 or 111; HEC 122, 249, 398; MAM 230; Min. of 3 of the following HEC courses 220, 221, 222, 228, 229, 322, 323, 324, 326, 327, 328, 338. Following courses are strongly recommended as University Studies or as general electives: ACC 131; CHE 104; ACS 140; ECO 100, 101; PSY 111; SAS 106. A minor in Business Administration is highly recommended, including MAM 233, 234, 335. Students interested in Fashion Design should elect ART 104, 213, 214; HPR 181; HEC 220, 222, 228, 322, 324 as additional courses toward graduation.

General Home Economics Sequence: Core requirements: HEC 110, 114, 115, 116, 117, 118. Sequence requirements: HEC courses selected with the consultation of an academic adviser.

MAJOR IN HOME ECONOMICS EDUCATION

- 38 hours in Home Economics and specifically related fields required. Minimum of 8 hours in at least 2 sequence areas required. Part of entitlement program leading to certification 6-12.
- Required courses: HEC 110, 114, 115, 116, 117, 118, 122, 203; ART 103 or 111.

Students who have not had high school laboratory courses in biological and physical sciences are urged to include one or more courses in each area to meet University Studies requirements. Courses for Early Childhood Education certification (early childhood below 6 years of age) can be combined with this major. (See Minor in Early Childhood Education for course requirements). The student must also complete General Education Requirements for high school and Professional Education Requirements for high school (see Teacher Education Program Requirements- High School).

MINOR IN HOME ECONOMICS

- 24 hours in Home Economics required.
- Required courses: Three of the following core courses: HEC 114, 115, 116, 117, 118.

Home Economics Courses

106 NUTRITION 2 US-7 F.S

Not for credit maj min. Materials charge optional.

Functions, sources, and recommended amounts of nutrients for various age groups. Evaluation of eating patterns.

110 INTRODUCTION TO HOME ECONOMICS 1 F

Incl Clin Exp. Materials charge optional.

Development of Home Economics; contributions of field; satisfactions derived from various areas; career opportunities.

114 INDIVIDUAL AND FAMILY DEVELOPMENT 4 F.S

Materials charge optional. Formerly CONTEMPORARY PERSONAL AND FAMILY LIVING and HEC 194.

Overview of the development of an individual throughout the life span within the context of the developing family unit.

115 TEXTILES AND APPAREL 4 F.S

Materials charge optional. Formerly HEC 195.

Factors related to personal satisfaction in selection and use of apparel; exploration of textile fibers and fabrication.

116 NUTRITION WITH FOOD PREPARATION 4 F.S

Materials charge optional. Formerly HEC 196.

Knowledge and skills associated with meeting nutritional needs of individuals and families through food preparation.

117 CONSUMER MANAGEMENT 4 F.S

Materials charge optional. Formerly HEC 297 and 197.

Management through decision-making process to achieve the best use of resources and consumer knowledge.

118 HOUSING AND EQUIPMENT 4 F.S

Materials charge optional. Field trips.

Formerly HEC 298 and 198.

Fundamental decisions in the consumer choice of dwelling and the selection, use, and care of household equipment.

121 BEGINNING GARMENT CONSTRUCTION 3 S

Materials charge optional.

Basic principles of garment construction. Designed for the student without a sewing background. Two garments completed.

122 CLOTHING CONSTRUCTION I	3	F.S		
HEC 115. Clothing construction experience. Materials charge optional.				
Techniques of garment construction. Elementary fitting of basic dress and/or shirt. One or two garments completed. Sewing background necessary.				
131 COURTSHIP AND MARRIAGE	3	US-7	F.S	
<i>Not for credit maj min. Materials charge optional.</i>				
Dynamics of dating, courtship, mate selection, preparation for marriage; adjustments in marital/interpersonal relations.				
132 HOME MANAGEMENT IN CONTEMPORARY LIFE	3	US-7	F.S	
<i>Not for credit maj min. Materials charge optional.</i>				
Principles, decision-making processes of using money, time, energy to meet individual and family needs.				
156 APPLIED FOOD SERVICE SANITATION	2	F		
<i>Also offered as HSC 156. Lecture. Not for credit for Env Health maj min.</i>				
A review of the practices and laws governing the sanitation of food services facilities.				
203 COMPETENCIES FOR TEACHING	4	F.S		
<i>C&I 200 (6 hours) or 200.03 (grade of C or better req.) or 215 (2 hours) req or conc reg. Materials charge optional. Field trips req. Incl Clin Exp.</i>				
Curriculum planning, teaching, and evaluation strategies, and professionalism for vocational and career education teachers.				
212 FAMILY HEALTH AND HOME NURSING	2			
<i>Materials charge optional.</i>				
Relation of individual health and family well-being. Prevention of illness and accidents. Home care of ill and convalescent.				
213 MEAL PLANNING	3	F.S		
<i>HEC 116 req. Materials charge optional.</i>				
Meal planning based on criteria of nutritive requirements, marketing challenges, and utilization of resources. Preparation and service of family dinners.				
216 NUTRITION AND FOOD SCIENCE	3	F.S		
<i>HEC 116 or cons inst.</i>				
Intermediate course focusing on physiological and biochemical basis for human nutritional requirements. Includes study of food as carrier of nutrients.				
218 ENERGY SYSTEMS FOR RESIDENTIAL DESIGN	2	S		
<i>HEC 118, IT 211 req. Materials charge optional. Field trips.</i>				
The design and evaluation of appropriate energy systems in residential construction. Includes heating/cooling, lighting, major appliances, and sound.				
220 CLOTHING CONSTRUCTION II	3	F.S		
<i>HEC 122. Materials charge optional.</i>				
Advanced garment construction study. Experience working with various fabrics, garment styles and fitting variations.				
221 TAILORING	3	F		
<i>HEC 220 req. Offered odd numbered years. Materials charge optional.</i>				
Suit and coat construction using recognized tailoring techniques.				
222 FASHION HISTORY	3	S		
<i>HEC 115 req. Materials charge optional.</i>				
A study of the changes in and occurring cycles of western world high fashion as related to current fashion trends.				
228 COSTUME DESIGN	2	S		
<i>HEC 115 req and ART 103 or 111 req. Materials charge optional.</i>				
Application of art principles to apparel creation. Idea development from conception through production to retailing. Style nomenclature emphasized.				
229 FASHION ACCESSORIES	2	F		
<i>HEC 115 req. Materials charge optional. Field trips req.</i>				
Accessories for men, women, and children in relation to materials and processes, government regulations, sources, and merchandising techniques.				
231 FAMILY RELATIONSHIPS	3	F.S		
<i>HEC 114 or C&I 210 req. Materials charge optional.</i>				
Functions of productive family units to fulfill individual and group needs. Emphasis on the skills needed by the parent.				
232 ADVANCED HOME MANAGEMENT CONCEPTS	3	S		
<i>HEC 117 or 132 req. Materials charge optional. Field trips req.</i>				
Problem solving approach to the use of managerial components and their functional relationships to the complexities of today's living.				
237 SLIPCOVERS AND DRAPERYES	2	Summer		
<i>Sewing proficiency. Students furnish materials for projects. Materials charge optional. Offered even numbered years.</i>				
Application of art principles to interior design through selection and construction of draperies and slipcovers.				
242 DRAFTING FOR INTERIOR DESIGN	3	F		
<i>IT 211 req. Materials charge optional.</i>				
Equipment, media, and techniques for graphic presentation of architectural design and perspective concepts.				
245 HOME ECONOMICS ADULT EDUCATION	2			
<i>Materials charge optional.</i>				
Organization and methods used in adult programs. Trends in home economics applied to adult education.				
248 CONTEMPORARY INTERIOR DESIGN	2	F		
<i>Materials charge optional. Field trips req.</i>				
Study of philosophies and individuals who have influenced contemporary furnishings, interiors, and structures from 1850 to present.				
249 MERCHANDISING IN FASHION	3	S		
<i>75 completed hours req. Materials charge optional. Field trips req.</i>				
Aspects related to a merchandising career in fashion: displays, salesmanship, store organization, sales promotion, and budgeting.				
250 CHILD DEVELOPMENT AND GUIDANCE	3	F.S		
<i>HEC 114 req. Incl Clin Exp. Materials charge optional.</i>				
Observation including 32 hours of laboratory participation contributing to understanding and guidance of children				
301 EVALUATION OF PROGRAMS	2			
<i>Materials charge optional.</i>				

Evaluation of programs, basic principles, methods, and techniques; individual problems.

304 CURRICULUM DEVELOPMENT IN HOME ECONOMICS 3

Materials charge optional.

Organization, methods, materials, and evaluation in relation to type of program and age level. Individual or group problems.

307 INFANT AND PRESCHOOL

CHILD 3

PSY 111 and HEC 114 req. Incl Clin Exp. Materials charge optional.

Research in the growth and behavior of the young child as related to family and society.

308 ORGANIZATION AND ADMINISTRATION OF EARLY CHILDHOOD PROGRAMS 3

Incl Clin Exp. Materials charge optional.

Administration of early childhood programs and community services responsible for guidance of young children.

309 COUPLE RELATIONSHIPS 3

HEC 114 req. Materials charge optional.

An interactional approach to the study of intimate male-female pairings: establishing couple relationships and developing effective intimate pairing communication.

310 FAMILY CRISSES 3

Materials charge optional. Field trips.

Cognitive and affective exploration of family crisis definition, the relationship-termination crises of death and divorce, and overview of professional helping resources.

311 NUTRITIONAL PROBLEMS OF SPECIAL GROUPS 3

HEC 116 or 106 req. Materials charge optional.

Nutritional needs of selected populations vulnerable to inadequate diet; emphasis on U.S. programs designed for groups at nutritional risk.

312 DIET THERAPY 3

HEC 106 or 116 req. Materials charge optional. Formerly HEC 211.

Planning modified diets and studying underlying diseases. Nutritional counseling of individuals and groups.

313 FOOD CUSTOMS 2

HEC 213 req. Materials charge optional.

Influence of food customs of various ethnic groups on American meal patterns.

314 EARLY CHILDHOOD NUTRITION EDUCATION 3

Materials charge optional.

Principles of nutrition and current research. Emphasis on the needs of young children. Guidance in implementing a sound nutritional education program.

316 FOOD INVESTIGATIONS 3

HEC 213, CHE 110, and 112 req. Materials charge optional.

Experimental approach to principles underlying food preparation.

319 QUANTITY FOODS 5

HEC 213 req. Materials charge optional. Field trips.

Application of principles, techniques, and standards required to produce food in quantity for institutional and commercial feeding.

320 DEMONSTRATION TECHNIQUES 2

Incl Clin Exp. Materials charge optional.

Techniques and standards for demonstrations in various areas of home economics.

322 PATTERNMAKING 3

HEC 122 or equivalent req. Offered even numbered years. Materials charge optional.

Making garment patterns by the flat pattern method.

323 ADVANCED TEXTILES 3

HEC 115 req. Lecture and laboratory. Materials charge optional.

Developments in the textile field, particularly man-made fibers and their products. Textile testing techniques.

324 DRAPING AND DESIGN 3

HEC 115, 122 or equivalent req. Offered odd numbered years. Materials charge optional.

Interpretation of garment designs in fabric by means of the draping procedure. Body form may be constructed.

326 FITTING AND ALTERATION 3

HEC 115, 122 or equivalent req. Offered even numbered years. Materials charge optional.

Investigation and comparison of various methods of fitting and altering garments and patterns to achieve a more acceptable effect.

327 CLOTHING AND BEHAVIOR 3

HEC 115, SAS 106, and PSY 111 req. Materials charge optional.

An analysis of factors that influence behavior in respect to clothing selection.

328 ECONOMICS OF FASHION 3

HEC 115 and ECO 101 req. Materials charge optional.

A study of fashion as an economic force. Fashion's influence on production distribution and consumption of textiles and clothing.

330 DECISION-MAKING FOR

CONSUMERS 3 US-7

F,S

Also offered as BEA 330. Materials charge optional.

Survey of consumer problems, trends and information. Topics include: insurance, housing, credit, life style, consumer protection, leisure and achieving financial security.

331 CONSUMER MATERIALS 3

HEC 117 req. Materials charge optional.

Application and evaluation of print and non-print consumer materials.

338 HISTORY OF FURNISHINGS AND

INTERIORS 3

S

Materials charge optional. Formerly FURNISHINGS and HEC 238.

Furnishings and interiors from antiquity to the late 19th century.

340 APPLIED INTERIOR DESIGN 4

HEC 115, 118, and 242 req. Materials charge optional. Lecture and laboratory.

Principles in designing interior environments to meet human needs. Laboratory devoted to development of renderings and presentations for portfolios.

343 CONSUMER HOUSING ALTERNATIVES 3

HEC 118 or cons inst req. Offered odd numbered years. Field trips req. Materials charge optional.

Facts, concepts, and perceptions regarding the housing alternatives confronting consumers seeking housing commensurate with current needs and future demands.

345 ENVIRONMENTAL DESIGN AS A PROFESSION 2

HEC 340 req. Materials charge optional.

Professional principles and practice of interior design

F,S

careers, including systems, forms, and logistics of money and materials.

347 HUMAN FACTORS IN INTERIOR ENVIRONMENTS 2 S
HEC 118 or cons inst req.

Functional and aesthetic aspects of interior environments. Emphasis on interface between man-made environments and humans. Needs of special populations addressed.

370 RESIDENTIAL DESIGN STUDIO 4 F
HEC 218, 242, 340; ART 352 req. Field trips req. Materials charge optional.

Analysis of the total residential environment, applying elements and principles to projects. Emphasis on functional uses of form and space.

375 NON-RESIDENTIAL DESIGN STUDIO 4 S
HEC 370 req. Materials charge optional.

Studies of design theory, division space and equipment of non-residential interiors to meet the physiological and psychological requirements of the persons involved.

380 ORGANIZATION AND ADMINISTRATION OF VOCATIONAL COOPERATIVE EDUCATION PROGRAMS 3 F,S

Also offered as AGR 380, BEA 380, and IT 305. Incl Clin Exp.

Planning and organizing a cooperative program; emphasis on recruitment, selection of training stations, student placement, and operation of cooperative plan.

382 COORDINATION TECHNIQUES OF COOPERATIVE VOCATIONAL EDUCATION PROGRAMS 3 S

Also offered as AGR 382, BEA 382, and IT 306. Incl Clin Exp.

Coordination techniques needed for high school and post-secondary teacher coordination in integrating classroom activities with daily employment.

394 HEALTH ASPECTS OF AGING 3 F,S

SAS 211 req. Materials charge optional. Also offered as HPR 394 and HSC 394.

A study of the characteristics of the aging process and factors influencing adaptations and the quality of living.

398 PROFESSIONAL PRACTICE: HOME ECONOMICS 1-4 F,S

Jr-sr standing (74 hrs) req; 100 percent core and 50 percent sequence req; 2.2 overall GPA req on date of application and first day of work. May be repeated once. Materials charge optional. See adviser for additional sequence requirements. Prior approval of dept chair req. Placement is not guaranteed.

Planned and supervised work experience in government, community, business, or industry for subject areas: Child Development and Family Relationships; Consumer Services; Foods-Nutrition or Dietetics; Housing and Environmental Design; and Merchandising in Clothing and Textiles.

INDUSTRIAL TECHNOLOGY (IT)

211 Turner Hall

Chairperson: Everett N. Israel.

Faculty: Professors: Anderson, Blomgren, Francis, Herberts, Israel, Kagy, Lockwood, Loepp, Miller, Pendleton, Quane, Talkington, Weede, Zook. Associate Professors:

Andrews, Bell, Budig, Campbell, Dorner. Assistant Professors: Aman, Kanagy, Nelsen, Pontius, Samdahl, Young. Instructors: Brusic, Costin, Estrem, Hanks, Laing, Luschinski, Stier.

Industrial Technology is defined as the creative, systematic application of knowledge utilizing human and natural resources involving tools, equipment, techniques, processes, procedures, scientific principles, and management skills to produce and distribute goods, services and information to cope with change or to control environmental conditions and their effect on society and culture. Degree programs include Technology of Industry, Safety, and Industrial Education.

Technology of Industry and Industrial Education students are encouraged to specialize in one or more of the following areas of concentration: (1) construction; (2) wood technology; (3) metal technology; (4) plastics technology; (5) drafting; (6) computer application; (7) graphic arts; (8) electricity/electronics; (9) automotive/power; (10) alternative (solar) energy. Those preparing to teach industrial vocational subjects must meet requirements set forth by the Illinois Office of Education. A detailed explanation is available at the Departmental office.

Students in the Safety program are required to specialize in Occupational Safety or Traffic and Safety Education.

The academic standards of the University apply to all students enrolled in the Department of Industrial Technology. The following additional standard applies to students enrolled as majors in the department: after attempting 60 semester hours of college credits, a student must maintain a cumulative grade point average of at least 2.0 to be retained as a major in the department.

Honors in Industrial Technology Degree Programs:

The Department offers honors work in the different departmental programs to majors who have completed 60 semester hours with a cumulative 3.5 GPA. Students interested in the program should see departmental honors advisers. Requirements for honors for the Industrial Technology Honors program are available in the Departmental Office (210 Turner Hall).

Students who are majoring in Safety, Technology of Industry, and Industrial Education may enroll in sections of courses labeled *Majors Only*. General students and all other majors should select sections of courses that are not designated for *Majors Only*.

Non-business majors who desire to elect more than 25 percent (30 credits) of their courses work in business must meet all College of Business requirements for graduation. These students should register for additional courses only in person and with the written permission of the College of Business advisor.

Technology Programs

Degrees Offered: B.S., B.S. in Ed.

Technology of Industry Program: Technology of Industry is a technically oriented curriculum related to the processes, products, and problems of industry including: (a) the knowledge and understanding of materials and production processes, principles of distribution, and concepts of industrial management and human relationships; (b) experiences in communication skills, humanities, and social sciences; and (c) a proficiency in the application of physical sciences, mathematics, design, technical skills and principles to permit the graduate to cope with managerial, supervisory, and research and development facets of industry.

COMPREHENSIVE TECHNOLOGY OF INDUSTRY MAJOR*

- 55 hours required.
- Pass Algebra and Trigonometry sections on Math competency exams, or complete MAT 107 and MAT 108, or MAT 109, or equivalents (MAT 110, 115, or 120). Hours don't count in major.
- Complete at least one of the following courses as a Natural Science Studies group requirement of University Studies, or as a general elective: CHE 110 - 112, 140, 150; PHY 105, 108, 110. Hours don't count in major.
- Required technical core courses: IT 171, 190, 191, 192, 210.01 ;MAM 220.
- Minimum of 17 hours in not more than two technical specialties. (See departmental advisement sheets that identify courses for each technical specialty).
- 9 hours from one of the following areas:**
 - Production support area: IT 212, 230, 233, 240, 241, 242, 244, 261, 263, 285, 330.
 - Business support area: MAM 221, 227, 230, 323; HIS 256; PSY 230; IT 311, 381; ECO 225, 320, 355.
 - Design and Technical Communication support area: ART 226, 227, 326; BEA 115; COM 110, 123, 160, 227, 228, 241; ENG 145, 249; IT 250, 349; ACC 160; ACS 164, 168, 169, 283, 363, 364.

*Only core courses (IT 171, 190, 191, 192) may be used to meet the requirements for a double major or minor in Industrial Education, or Safety.

**Courses can count only once toward an area requirement in the comprehensive major. No more than 6 hours may be used to meet the requirement of the Comprehensive Industrial Technology Major from another major or minor outside the department.

MAJOR IN TECHNOLOGY OF INDUSTRY*

- 37 hours required.
- Pass Algebra and Trigonometry sections on math competency exam, or complete MAT 107 and MAT 108, or MAT 109, or equivalents (MAT 110, 115, or 120). Hours don't count in major.
- Complete at least one of the following courses as a Natural Science Studies group requirement of University Studies or as a general elective: CHE 110 - 112, 140, 150; PHY 105, 108, 110. Hours don't count in major.
- Required technical core courses: IT 171, 190, 191, 192, 210.01; MAM 220.
- Minimum of 15 hours in a technical specialty. No more than 8 hours in a single specialty. Remaining hours to be taken in other related specialty areas. (See departmental advisement sheets that identify courses per technical specialty.)

*Only core courses (IT 171, 190, 191, 192) may be used to meet the requirements for a double major or minor in Industrial Education, or Safety.

MINOR IN TECHNOLOGY OF INDUSTRY

- 24 hours required.
- Pass algebra and trigonometry sections on math competency examination, or complete MAT 107 and MAT 108, or MAT 109 or equivalents (MAT 110, 115, or 120).
- Complete at least one of the following courses as a Natural Science Studies group requirement of University Studies, or as a general elective: CHE 110/112, 140, 150; PHY 105, 108, 110.
- Required technical core courses: three courses from IT 171, 190, 191, 192 (one of these courses must be in the student's area of technical specialization). Note that IT 171 may also count in University Studies Group 7.
- Select no more than two courses from a single technical

specialty. (See departmental advisement sheets that identify courses for each technical specialty).

- Select one course from related technical specialty selectives. (See departmental advisement sheets). Note that one of the 190 series courses is a prerequisite for advanced courses in the related technical specialty.
- Select one course from the following professional areas of the Technology of Industry program: IT 311, 354, or 370.
- Only core course (IT 171, 190, 191, 192) may be used to meet the requirements for a major in Safety and a minor in Technology of Industry.

Note: All students must take the 190 course series as part of the required courses for a major, or comprehensive major in Technology of Industry. In addition, the students must take the 190 series course, (190, 191, or 192) in a technical area prior to taking advanced courses (200 level or higher) in that area and MAT 107 and 108, or 109, or concurrent enrollment. Waiver or substitution of the 190 courses for transfer students will be made at the discretion of the chairperson of the department. A student with an exceptional background in a particular technical area should take the proficiency examination for the course (190, 191, or 192). Non-majors must demonstrate competencies equal to the prerequisites for 200 level courses they wish to enroll in.

Industrial Education Program: Industrial Education is that part of the curriculum designed to prepare teachers who will educate our citizenry at various levels in the education process through such programs as Industrial Arts, Industrial Vocational Education, Industrial Technical Education, and Industrial Technology. In addition to regular University requirements, the curriculum has two essential components concerned with the development of cognitive, psychomotor, and affective skills related to (a) the use of tools, materials processes, resources, techniques, principles, work (skill and organization), products and their effect on people in the technical content areas of energy and power, materials and processes, graphic communications, and safety; and (b) the professional competencies of planning, executing, and evaluating of instruction.

COMPREHENSIVE INDUSTRIAL EDUCATION MAJOR*

- 55 hours required. Part of entitlement program leading to certification: secondary 6-12.
- Required courses: IT 101, 171, 190, 191, 192, 203; MAT 107 and MAT 108, or MAT 109, or equivalents (MAT 110, 115, or 120).
- IT 203 concurrent with student teaching.
- At least 8 hours in each of two of the areas of construction, wood technology, metal technology, plastics technology, drafting, computer application, graphic arts, electricity/electronics, automotive/power, and alternative (solar) energy with an overall GPA of 2.8 in the courses.
- Additional Industrial Technology courses approved in consultation with an academic adviser designed to meet one of the following concentrations: Industrial Arts Education, Industrial Vocational Education, and Industrial Technical Education.

MAJOR IN INDUSTRIAL EDUCATION*

- 37 hours required. Part of entitlement program: leading to certification: secondary 6-12.
- Required courses: IT 101, 171, 190, 191, 192, 203; MAT 107 and MAT 108, or MAT 109, or equivalents (MAT 110, 115, or 120).
- IT 203 concurrent with student teaching.
- At least 8 hours in one of the areas of construction, wood technology, metal technology, plastics technology, draft-

- ing, computer application, graphic arts, electricity/electronics, automotive/power, or alternative (solar) energy with an overall GPA of 2.8 in the courses.
- Additional Industrial Technology courses approved in consultation with an academic adviser designed to meet one of the following concentrations: Industrial Arts Education, Industrial Vocational Education, and Industrial Technical Education.

MINOR IN INDUSTRIAL EDUCATION*

- 26 hours required.
- Required courses: IT 101, 190, 191, 192, 203.
- At least 8 hours in one of the areas of construction, wood technology, metal technology, plastics technology, drafting, computer application, graphic arts, electricity/electronics, automotive/power, or alternative (solar) energy with an overall GPA of 2.8 in the courses.
- IT 171 strongly recommended in Group 7 of University Studies.

*Only core courses (IT 171, 190, 191, 192 and MAT 107 and MAT 108 or MAT 109 if applicable for the major) may be used to meet the requirements for a double major or minor in Technology of Industry or Safety.

Safety Programs

Degree Offered: B.S.

Safety Program: Safety is a curriculum oriented to the creative and systematic application of organized knowledge, using human resources involving procedures, processes, equipment, scientific principles, techniques and means for organizing activities to cope with change and/or control the environment to improve the quality of life and to make decisions to prevent or reduce human and economic loss due to accidental mishap.

MAJOR IN SAFETY

Occupational Safety Sequence*: 37 hours required. Required courses: IT 171, 190, 191, 192, 356; MAT 107 and 108, or MAT 109, or equivalents (MAT 110, 115, or 120). At least 15 hours selected from: IT 370, 372, 373, 378, 380, 381. (Note: Some of these courses require coursework in CHE, MAT, or PHY that must be met.) Faculty will provide guidance for selecting safety-related courses as part of general electives. Note: All students must take the 190 course series as part of the Occupational Safety Sequence. Waiver or substitution of the 190 courses for transfer students will be made at the discretion of the chairperson of the department. A student with exceptional background in a particular technical area should take the proficiency examination for the course (190, 191, or 192). Non-majors must demonstrate competencies equal to the prerequisites for advanced level courses in which they wish to enroll.

Traffic and Safety Education Sequence*: 37 hours required. A valid driver's license required. Required courses: IT 171, 172, 273, 374, 379. At least 7 hours selected from IT 275, 371, 372, 377, 378. Electives in safety-related courses such as EAF 270; HPR 180; HSC 390; IT 163, 176, 383, 389 (The Exceptional Student in Driver Education) PSY 302, 365; and SED 109, 346, 349 approved in consultation with an academic adviser.

MINOR IN TRAFFIC AND SAFETY EDUCATION*:

- 20 hours required.
- A valid driver's license required.
- Required courses: IT 171, 172, 273, 374, 379.

- At least 5 hours selected from IT 163, 176, 275, 371, 377. Electives in safety-related courses approved in consultation with an academic adviser.

*Only core courses (IT 171, 190, 191, 192 and MAT 107 and MAT 108 or MAT 109 if applicable for the major) may be used to meet the requirements for a double major or minor in Industrial Education or in Technology of Industry.

Industrial Technology Courses

100 INTRODUCTION TO CAREERS IN INDUSTRIAL TECHNOLOGY 1 F.S

Study of programs and vocational opportunities in industrial education, technology of industry and safety.

101 INTRODUCTION TO TEACHING IN INDUSTRIAL EDUCATION 2 F.S

Incl Clin Exp.

The observation, identification and execution of selected tasks typically performed by industrial education teachers.

163 AUTOMOTIVE FUNDAMENTALS 2

Not for credit maj min except in Traffic and Safety sequence.

Theory and laboratory experiences in maintenance and repair of automobile components; emphasis on preventative maintenance.

171 PRINCIPLES OF ACCIDENT PREVENTION 3 US-7 F.S

Materials charge optional.

Overview of the broad accident problem and underlying factors and theories of accident causation and prevention.

172 DRIVING TASK ANALYSIS 3 F.S

IT 171 or conc reg req. Laboratory arranged. Materials charge optional. Valid Illinois driver's license required.

Physical, mental requirements necessary for safe drivers. Laboratory experience devoted to improvement of student's driving ability.

176 INTRODUCTION TO MOTORCYCLE SAFETY 1 F.S

Not for cr maj/min except in Traffic Safety sequence.

Classroom and laboratory experiences provide basic knowledges, skills, and techniques necessary for the safe operation of a motorcycle.

190 GRAPHIC COMMUNICATIONS 4 F.S

Some sections restricted to maj only. Materials charge optional.

Process and technology of transmitting, storing and using ideas or knowledge in visible graphic form.

191 ENERGY AND POWER 4 F.S

Some sections restricted to maj only. Materials charge optional.

Operating principles of electricity, electronics, heat engines and fluid power related to energy conversion, transmission, and utilization.

192 INDUSTRIAL MATERIALS AND PROCESSES 4 F.S

Some sections restricted to maj only. Materials charge optional.

Nature and properties of industrial materials and influence on manufacturing techniques.

202 LABORATORY MAINTENANCE 2 F.S

IT 190, 191, 192 or cons inst req.

Identification of maintenance problems, determinations of procedures to rectify these problems, and understanding of equipment operating principles in industrial education laboratories.

203 COMPETENCIES FOR TEACHING 4

F,S

IT 101 req. C&I 200 (6 hours) or C&I 200.03 (grade of C or better req) or 215. Inc Clin Exp. Conc req in Student Teaching req.

Curriculum planning, teaching, and evaluation strategies, and professionalism for industrial education teachers.

208 INDUSTRIAL TECHNOLOGY SYSTEMS 3 US-7

F,S

Soph standing req.

Introduction to industrial technology systems, their characteristics and development, how they shape and are shaped by society and culture, and resulting major issues.

210.01 PRINCIPLES OF TECHNICAL DESIGN AND DRAFTING 4

F,S

MAT 107 and 108, or 109; IT 190. Maj only. Materials charge optional.

Graphical, computer and other techniques needed to analyze, interpret, and/or solve problems related to development and communication of industrial designs and technical data.

210.02 TECHNICAL DRAFTING 4

F,S

MAT 107 and 108 or 109 or conc req. Non-maj only. Materials charge optional. Formerly IT 210.

Graphic tools, techniques and processes; automated drafting, drafting machines and reprographic equipment used in development and representation of industrial products.

211 ARCHITECTURAL DRAFTING 4

F,S

MAT 107 or 108 or 109 or conc reg, IT 190 or demonstrated equivalent competencies req. Materials charge optional.

Problem approach to architecture; emphasis on residential planning and construction. Laboratory devoted to development of working drawings.

212 MACHINE DESIGN 3

F

IT 210.01 or demonstrated equivalent competencies req. Materials charge optional.

Theoretical principles and conventional practices used in the design of machines and machine elements.

213 DEVELOPMENTAL DESCRIPTIVE

GRAPHICS 4

S

IT 210.01 or demonstrated equivalent competencies req. Materials charge optional.

Specialized drafting methods used in revolutions and developments. Graphical solutions to mathematical and structural problems.

220 WOOD TECHNOLOGY 4

F,S

MAT 107 or 108 or 109 or conc reg, IT 192 req. Materials charge optional.

Practices of woodworking industries. Properties of wood materials; bench woodworking, carpentry, pattern-making, lamination and machine processes.

221 CONSTRUCTION

TECHNOLOGY 4

F,S

MAT 107 or 108 or 109 or conc reg, IT 192 or HEC major req. Materials charge optional.

Principles and practices of construction. Materials and methods used to build and enclose sub- and superstructures. Utility systems.

223 PRODUCTION WOODWORKING

4 S

IT 220 req. Materials charge optional.

Surveys management and production technologies used in quantity manufacture of wood and related products; production woodworking equipment.

226 CABINET AND FURNITURE

PRODUCTION 4

F

IT 220 req. Materials charge optional.

Advanced theory and practice in machine setup, operation and maintenance; product design, standards and construction; specialized processes.

230 GENERAL METAL WORK

4

F,S

MAT 107 or 108 or 109 or conc reg. IT 192 req. Not for credit if had IT 232 or 330. Materials charge optional.

Basic theory and practice in hot and cold metal-working processes; sheet metal, bench metal, metal casting, oxyacetylene and electric welding.

233 MACHINE TOOL

TECHNOLOGY I 4

F,S

MAT 107 or 108 or 109 or conc reg. IT 192 req. Materials charge optional.

Basic machine tool theory and practice; saws, drilling machines, lathes, shapers, milling machines, surface grinders, metrology, heat treatment.

235 MACHINE TOOL

TECHNOLOGY II 4

F

IT 233 req. Materials charge optional.

Theory computations, setups for precision machining; turning operations, cylindrical grinding, surface grinding, milling operations, indexing, gear cutting.

240 ELECTRICAL TECHNOLOGY 4

F,S

MAT 107 or 108 or MAT 109 or conc reg. IT 191 req. Materials charge optional.

Analysis of electrical and magnetic circuits.

241 ELECTRICAL MACHINERY 3

F

IT 240 req. Materials charge optional.

Operation, characteristics and applications of electric motors and generators.

242 ELECTRONICS TECHNOLOGY 4

F,S

IT 240 or demonstrated equivalent competencies req. Materials charge optional.

Operation, characteristics and applications of electron tubes, solid state diodes and bipolar transistors in basic electronic circuits.

244 SEMICONDUCTOR

ELECTRONICS 3

S

IT 240 or demonstrated equiv competencies req. Materials charge optional.

Operation, characteristics and applications of discrete and integrated solid state devices in selected analogic and digital circuits.

250 THE GRAPHIC ARTS

PROCESSES 4

F,S

MAT 107 or 108 or 109 or conc reg, IT 190 req or demonstrated equiv competencies. Materials charge optional.

Theory and practice in basic relief, lithography, screen process, intaglio, photography and many support technologies.

251 GRAPHICS ARTS

TECHNOLOGY 4

F,S

IT 250 req or demonstrated equivalent competencies. Materials charge optional.

Idea visualization, copy preparation, continuous tone copy, process photography, negative assembly, image carriers, ink transfer and finishing operations.

253 PHOTOMECHANICAL PROCESSES 3 F

*IT 250 req or demonstrated equivalent competencies.
Materials charge optional.*

Design, layout, camera ready copy preparation and process photography for a graphic reproduction.

254 CONTINUOUS TONE COPY**PREPARATION 3 F**

MAT 107 or 108 or 109 or conc reg, IT 190 req. Materials charge optional.

Preparation of continuous tone copy for graphic reproduction.

261 AUTOMOTIVE POWER PLANTS 4 F.S

MAT 107 or 108 or 109 or conc reg, IT 191 req. Materials charge optional.

Theory and laboratory experiences in function, rebuild maintenance and adjustment of automotive type engines.

262 AUTOMOTIVE ELECTRICAL**SYSTEMS 4 F.S**

MAT 107 or 108 or 109 or conc reg, IT 191 req. Materials charge optional.

Operating principles, applications, diagnosis and repair of automotive electrical systems and components.

263 FLUID POWER MECHANICS 3 F.S

MAT 107 or 108 or 109 or conc reg, IT 191 req. Materials charge optional.

Operating principles and applications of hydraulic, pneumatic and fluidic components and systems.

264 AUTOMOTIVE CHASSIS SYSTEMS 3 S

*MAT 107 or 108 or 109 or conc reg, IT 191 req.
Materials charge optional. Formerly AUTOMOTIVE SUSPENSION, STEERING AND BRAKE SYSTEMS.*

Theory, repair, alignment or adjustment of front and rear suspensions, manual transmissions, rear axles, steering mechanisms, and brakes.

265 AUTOMOTIVE AND MOBILE**FLUID POWER SYSTEMS 4 F**

MAT 107 or 108 or 109 or conc reg, IT 191 req. Materials charge optional.

Operating principles, diagnosis and adjustment of automatic transmission, hydrostatic drives, power steering, power brakes, and accessories.

266 INDUSTRIAL AND UTILITY**ENGINES 4 S**

MAT 107 or 108 or 109 or conc reg, IT 191 req. Materials charge optional.

Theory and laboratory experiences in function, applications and maintenance of utility, outboard, industrial and diesel engines.

273 MULTIPLE CAR AND**ON-STREET INSTRUCTION 3 F.S**

*IT 172 req. Content of IT 172 is used as students teach beginning drivers on the driving range and on-street.
Materials charge optional. Valid driver's license required.*

Instruction, administration, organization and evaluation of multiple-car and on-street programs.

275 TRAFFIC LAW**AND ENFORCEMENT 3 F.S**

IT 172 req. Materials charge optional.

Philosophy, methods of detecting, apprehending violators. Fundamentals of traffic law applicable to laymen, technicians, and teachers.

281 COMPUTER SYSTEMS**OPERATION 2 F.S**

ACS 168 req. Also offered as ACS 281.

Basic principles for operating IBM 370 VS computer system and handling peripheral equipment. Hands-on experience provided.

285 INDUSTRIAL PLASTICS 4 F.S

MAT 107 or 108 or 109 or conc reg, IT 192 req. Materials charge optional.

Resins, processing, fabrication; injection molding, extrusion, rotational molding, foaming, thermoforming, identification and testing.

304 JOB ANALYSIS 3

Materials charge optional.

Techniques and procedures for analyzing jobs for efficiency of human talent and enhancement of certain human values.

305 ORGANIZATION AND ADMINISTRATION OF VOCATIONAL COOPERATIVE EDUCATION PROGRAMS 3 F.S

Also offered as AGR 380, BEA 380, and HEC 380.

Planning and organizing a cooperative program; emphasis on recruitment, selection of training stations, student placement, and operation of cooperative plan.

306 COORDINATION TECHNIQUES OF COOPERATIVE VOCATIONAL EDUCATION PROGRAMS 3 S

Also offered as AGR 382, BEA 382, and HEC 382.

Coordination techniques needed for high school and post-secondary teacher coordinators in integrating classroom activities with daily employment.

307 EMPLOYMENT ANALYSIS FOR THE EXCEPTIONAL 3 F.S

Also offered as SED 380. Materials charge optional.

Diagnosis and instruction of exceptional children who are placed in occupational education. Synthesizing employment and education for exceptional children.

308 MAN AND TECHNOLOGY 3 US-7

IT 208, honor student status, or demonstrated excellence in a related field req.

A study of the impact of contemporary technology upon man, society and culture.

311 INDUSTRIAL OPERATIONS 3 F

A study of industrial principles, practices and methods used to establish a sequence of operations to produce a product.

319 COMPUTER GRAPHICS 3 F.S

IT 210.01 or 289 (Principles of Technical Design and Drafting), or demonstrated equiv competencies req.

Also offered as COM 319. Materials charge optional.
Combination of graphic techniques and computer programming as means of industrial communication applied to solution and interpretation of technological problems.

320 MASONRY CONSTRUCTION 4

IT 221 req.

Theory, materials and practices of concrete and masonry construction. Practical experience through on-site activities.

321 CARPENTRY CONSTRUCTION 4 F.S

IT 221 req. Students are personally responsible for transportation to construction site.

Theory, materials and practices of the building construction industry. Practical experience through on-site activities including carpentry and related trades.

330 WELDING TECHNOLOGY 4 F.S

IT 192 req, IT 230 rec. Materials charge optional. Not for credit if had former IT 232.

Advanced theory and practice in modern welding processes.

es; (TIG) tungsten inert gas, (MIG) metallic inert gas, other electric welding processes.

331 MACHINE TOOL TECHNOLOGY III 4 F

IT 233 req. Materials charge optional.

Theory and practice of production machine set ups; numerical control programming and operation; and electrical discharge machining (EDM) technology.

332 APPLIED PHYSICAL METALLURGY 3 F.S

IT 192 req. Materials charge optional.

Physical and mechanical properties of metals, testing properties, crystalline structure, metallurgical examination, constitution of alloys, heat treatment, industrial applications.

342 COMMUNICATIONS ELECTRONICS 4 S

IT 242 req. Materials charge optional.

Operation and characteristics of electronic circuits and devices employed in communication systems.

344 INSTRUMENTATION ELECTRONICS 4 F

IT 242 req. Materials charge optional.

Operation, characteristics, calibration, and maintenance of electronic circuits and devices employed in selected electronic instruments.

349 TECHNICAL WRITING II . 3 F.S

ENG 249 or graduate standing req. Also offered as ENG 349. Formerly TECHNICAL WRITING.

Instruction and practice in editing, proposals, and analytical writing; attention given to style manuals, research-writing, and (as needed) publication.

351 IMAGE CARRIERS AND IMAGE TRANSFER 3 S

IT 250 req or demonstrated equivalent competencies. Materials charge optional.

Theory and laboratory practice in negative assembly, and plate making, proofing and press systems.

352 CHARACTER GENERATION 3 F

IT 250 req. or demonstrated equivalent competencies. Materials charge optional.

Theory, laboratory practice on photographic, strike-on and hot metal composition equipment. Magnetic disc input and VDT editing concepts are included.

353 COLOR SEPARATION 3 S

IT 253 req or demonstrated equivalent competencies. Materials charge optional.

Theory of color, modern color separation methods, fake color, transmission and reflection copy, color correction, additive and subtractive color.

354 THE GRAPHIC ARTS INDUSTRY 3 F

IT 250 req or demonstrated equivalent competencies.

Graphic arts industrial organization of human resources, physical assets, and money; efficient production of graphic communications products.

356 OCCUPATIONAL HEALTH FOR SAFETY PROFESSIONALS 3 S

CHE 110, MAT 107 and 108, or 109, and IT 171 req. Not for credit Env Health maj min. Also offered as HSC 356.

A study of the relationships, effects, and methods of control of chemical, microbiological, radiological, and physical hazards and stresses on the health, efficiency, and well-being of employees.

361 MOTOR VEHICLE DIAGNOSIS 3 F

IT 262 req. Materials charge optional.

Motor vehicle systems diagnosis; emphasis on electrical and fuel and emission systems.

363 FLUID POWER SYSTEMS DESIGN & ANALYSIS 3 S

IT 263 req or fluid power design experience. Materials charge optional.

Design, sizing and analysis of hydraulic and pneumatic circuits including both machine tool and mobile applications.

365 SOLAR HEATING AND COOLING TECHNOLOGY 3 F

IT 191 or 211 or 221 or cons inst req. Materials charge optional.

Principles, theory and laboratory practice in active solar systems for residential space and water conditioning.

367 PASSIVE SOLAR TECHNOLOGY 4 S

IT 191 or 211 or 221 or cons inst req. Materials charge optional.

Principles, theory and laboratory practice in passive solar applications.

370 INDUSTRIAL ACCIDENT PREVENTION 3 F.S

PHY 105; MAT 108, or 109, or equivs (110, 115, or 120); and IT 171 req.

Principles, responsibilities and techniques for developing, organizing, implementing and administering an industrial safety program.

371 ALCOHOL AND ACCIDENT PHENOMENON 3 F.S

IT 171 rec. Materials charge optional.

Effects of alcohol on accident causation. Psychological, physiological, pharmacological actions of alcohol in view of medical, sociological, religious and economic aspects.

372 ACCIDENT INVESTIGATION, RECORDS, AND EVALUATION 3 F.S

MAT 108 or 109 and IT 171 req.

Theory and function of accident investigation, reporting, and analysis systems. Form design and utilization and cost evaluation procedures.

373 AGRICULTURAL ACCIDENT PREVENTION 3 F.S

Also offered as AGR 345. Materials charge optional.

Major problems of accident causation and prevention applicable to agriculture and the need for farm safety education.

374 METHODS AND MATERIALS OF TEACHING DRIVER EDUCATION 3 F.S

IT 172 req. IT 273 rec. Content of IT 172 is used as students teach beginning drivers in the driving simulator and on street. Materials charge optional. Valid driver's license required.

Laboratory experience in teaching beginning drivers using driving simulation and dual-control on the street, organization and administration of Traffic Safety programs.

376 MOTORCYCLE EDUCATION 3 S, Summer

IT 176, 374 or cons inst; demonstrated competency as a motorcycle operator; valid drivers license with motorcycle endorsement. Lab arranged.

Administration, organization, evaluation and instruction of Motorcycle Safety programs, including experience in teaching beginning motorcycle operators utilizing classroom and on-cycle instruction.

377 TRAFFIC ENGINEERING 2 F.S

IT 171 and 172 req. Materials charge optional.

Investigation of vehicle and environmental components of

HTS; vehicle inspection, equipment, design; traffic studies performed; traffic planning to reduce collisions and congestion.

378 DISASTER PREPAREDNESS 3 F
Materials charge optional.

Organizing, directing, coordinating disaster services in schools, industry and local government. Includes T.B.A. 48 hr. disaster exercise.

379 CURRICULUM DEVELOPMENT IN DRIVER EDUCATION 3 F.S

IT 172 req. Content of IT 172 is used as students teach beginning drivers in the classroom. IT 273 or 374 rec. Materials charge optional.

Behavioral-oriented curriculum applicable to driver education. Behavioral objectives, learning activities, measurement of student performance peculiar to driver education.

380 FIRE PROTECTION AND PREVENTION 4 F.S

MAT 107, 109, or equivalent, IT 171, and CHE 110 req. Materials charge optional.

Measures related to safeguarding human life and preservation of property in prevention, detection, and extinguishing fires.

381 OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) 3 F.S

MAT 107, 109, or equivalent, IT 171, and IT 192 req.

Interpretation of the provisions of the Occupational Safety and Health Act. The regulations, standards, and reporting requirements issued pursuant to it.

383 ADVANCED DRIVER EDUCATION PROGRAMS 2

IT 273 and/or 374 req. Valid drivers license req. Lecture and laboratory. Materials charge optional.

Techniques for teaching and dealing with common emergency situations in driving.

385 REINFORCED PLASTICS 4 F.S

IT 285 req. Materials charge optional. Formerly IT 225.

Advanced theory, practical application of fiberglass, plastic resins, other materials in hand layup, spray up, filament winding and other common industrial techniques.

386 TECHNICAL COMPUTER PROGRAMMING 3

IT 289 (Principles of Technical Design and Drafting) or demonstrated equiv competencies req. Also offered as COM 386. Laboratory arranged. Materials charge optional.

Digital computer programming including microprocessors, minicomputers, and time-sharing systems, related to problem solving and process control in applied sciences and technologies.

398 PROFESSIONAL PRACTICE: EXTERNSHIP IN INDUSTRIAL TECHNOLOGY OR SAFETY 1-8 F.S

Jr-sr standing. Prior departmental approval required. No more than four semester hours may apply toward the comprehensive major. May be repeated. Max 16 hrs applicable toward graduation. The hour ratio for an internship is 40 hrs in industry for one semester hour of credit. The ratio for CO-OP experience is 120 contact hours for one semester hour of credit. Separate courses are designated for Industrial Education or Safety in the Class Schedule.

Practicum to provide planned and supervised work/study experiences in local and state businesses, industries, and governmental agencies.

MILITARY SCIENCE (MSC)

205 North University

Program Commander: James R. Glick.

Military Science (Army ROTC) is a program that provides college-trained officers for the US Army, the Army National Guard and the US Army Reserve. ROTC enhances student education by providing unique leadership and management experience and helps develop self-discipline, physical stamina and poise. This educational enhancement is further continued through the Professional Military Science program. The program encourages the student to take one course in each of the following areas: military history, written communication skills, human behavior, management, and national security studies. Participation in optional field trips may be required during each semester.

The four-year Army ROTC program is divided into two parts: The Basic Course and the Advanced Course.

The Basic Course is usually taken in the freshman and sophomore years with no military commitment incurred during this time. Subjects cover areas of national defense; military history; land navigation; leadership development; and military courtesy, discipline and customs. Uniforms, necessary textbooks and materials are furnished without cost to the student.

After completing the Basic Course, students who have demonstrated officer potential, meet Army physical standards, and have a cumulative minimum GPA of 2.0 are eligible to enroll in the Advanced Course.

The Advanced Course is normally taken in the final two years of college. Instruction includes further leadership development, organization and management, tactics, and administration, and is directed toward preparing the student to be commissioned as an Army officer upon completion of the course.

A paid Advanced Camp is held during the summer between the junior and senior years. This camp permits the cadets to put into practice the principles and theories they have acquired in the classroom. It also exposes them to the stresses of Army life in a tactical or field environment.

All cadets in the Advanced Course receive uniforms, necessary military science textbooks, pay for Advanced Camp, and a living allowance of up to \$1,000 each school year.

Military Science Courses

101 INTRODUCTION TO MILITARY SCIENCE 1 F

Introduction to organization, mission, functions, and customs of the Army; includes military life and customs and an introduction to United States defense establishment.

102 INTRODUCTION TO TACTICS 1 S

Fundamentals of tactics and their application to employment of squad and platoon sized units in offensive and defensive military operations.

111 LAND NAVIGATION 2 S

Map reading fundamentals; application of land navigation principles as applied to military maps using the lensatic compass and terrain association.

112 FUNDAMENTALS OF LEARNING AND MILITARY INSTRUCTION 1 F

Principles of military instruction, evaluation, training techniques, briefings, facilities and resources. Introduction to fundamentals of learning theory and processes.

200 LEADERSHIP LABORATORY 0 S

Reg in AROTC Advanced Course req.

Provides development by practical application of the student's leadership characteristics through progressive training in leadership, drill and command.

203 ROTC BASIC CAMP 5 Summer

Cons inst req. Cr/No Cr only. Not open to students who have had MSC 101, 102, 111, and 112.

Provides instruction and practical application on basic military concepts of map reading, tactics, principles of instruction and drill and ceremony.

220 PRINCIPLES OF MILITARY LEADERSHIP 2 F

Reg in AROTC Advanced Course or cons inst req.

Introduction to principles, responsibilities, techniques of military leadership and problems of leadership in the military environment.

221 MILITARY OPERATIONS 3 S

Reg in AROTC Advanced Course or cons inst req.

Application of principles of offensive and defensive combat; analysis of divisional unit and mission accomplishment methods.

240 MILITARY LAW AND ADMINISTRATIVE MANAGEMENT 3 F

Reg in AROTC Advanced Course or cons inst req.

Fundamental concepts of military justice; principles of courtsmartial and non-judicial punishment; staff principles and procedures in the Army organizational structure.

241 MILITARY PROFESSIONALISM AND RESPONSIBILITY 1 S

Reg in AROTC Advanced Course or cons inst req.

Introduction to professionalism and military professional responsibility.

242 ROTC ADVANCED CAMP 6 Summer

Reg in AROTC Advance Course req. Cr/No Cr only.

Instruction and practical application in field training, demonstration of leadership capabilities, and leadership opportunities of problem analysis, decision making, and troop-leading. Training is presented off campus.

COLLEGE OF ARTS AND SCIENCES

Dean: Virginia S. Owen, 141 Stevenson Hall.

The College of Arts and Sciences provides the opportunity for a liberal education in addition to the attainment of career-oriented skills. The College includes the Departments of Biological Sciences, Chemistry, Communication, Economics, English, Foreign Languages, Geography-Geology, History, Mathematics, Philosophy, Physics, Political Science, Psychology, Sociology, Anthropology and Social Work and Speech Pathology-Audiology. The College offers the core of the University Studies program required of all undergraduates, a wide range of academic major and minor programs for meeting baccalaureate degree requirements, master's programs in most disciplines and doctoral programs in Biological Sciences, Economics, English, History and Mathematics. Course offerings span the humanities, social and behavioral sciences, natural sciences, and mathematics.

Arts and Sciences Programs

These programs are part of the University's Contract Major and Minor, but are administered separately in the College of Arts and Sciences. Further Information: Dean of the College of Arts and Sciences.

The Arts and Sciences program is a restricted Contract Major for students in the liberal arts and sciences only whose goals cannot be accommodated by other academic majors within the College. Admission requirements are:

1. A minimum composite ACT score at the 85th percentile for freshmen. Entering freshmen enroll as General Students and apply for admission to this major prior to completion of University Studies.
2. An overall GPA of 3.00 or higher for non-freshmen and transfer students.
3. Students who do not meet the criteria above may be considered for admission to the program on the recommendation of two faculty members from different Arts and Sciences departments.
4. Petition for admission to this major must occur prior to the completion of 90 hours, or at least 15 hours of approved Arts and Sciences program work must be completed after admission to the program.

A concentration in Urban Studies is available to students under the Arts and Sciences major. Interested students may contact Dr. Thomas Wilson in the Department of Political Science. A concentration in Historical Archeology is available also to students under the Arts and Sciences major. Interested students may contact the department chairperson in either History, or Sociology, Anthropology and Social Work, for information about requirements of the program. A concentration in Quantitative Economics is available to students under the Comprehensive Arts and Sciences major. Interested students may contact the department chairperson in either Economics or Mathematics.

COMPREHENSIVE ARTS AND SCIENCES MAJOR

- 50 hours required in Arts and Sciences.
- Maximum of 25 hours from any one department.
- Minimum of 18 hours from one department required.

- Individual program developed with a designated faculty adviser and approved by the Dean of the College of Arts and Sciences.

MAJOR IN ARTS AND SCIENCES

- 35 hours required in Arts and Sciences in addition to the requirements for University Studies.
- Maximum of 25 hours from any one department.
- Individual program developed with a designated faculty adviser and approved by the Dean of the College of Arts and Sciences.

Latin American Studies Program

No major offered. Further Information: Dean of the College of Arts and Sciences.

MINOR IN LATIN AMERICAN STUDIES

- 24 hours in Latin American Studies courses required.
- Required courses: Two semesters of college Spanish or Portuguese, or the equivalent. Student completes, with the approval of an adviser designated by the Dean of Arts and Sciences, a planned program of study in which courses are elected in at least three fields other than Spanish and Portuguese. Work in the fields may include appropriate courses in AGR, ART, BSC, ECO, FOR, GEO, HIS, POS, and SAS.

This program must be planned in consultation with an academic adviser. With the approval of the adviser, courses in fields other than those listed above may be counted toward the minor, providing those courses are considered relevant to the course of study. No more than two courses in the student's major field of study, however, will be applicable toward the minor in Latin American Studies. Students interested in this program should consult the Dean of the College of Arts and Sciences.

Social Sciences Programs

Degrees Offered: B.A., B.S. Further Information: Department of History.

COMPREHENSIVE SOCIAL SCIENCES MAJOR

- 60 hours in social sciences (ECO, HIS, POS, and SAS courses).
- Required courses: at least 8 hours in economics, including ECO 100 and 101; at least 8 hours in United States history and 8 hours in World history (which must include one non-Western history course); at least 8 hours in political science, including POS 105; at least 8 hours in sociology, including SAS 106.

COMPREHENSIVE SOCIAL SCIENCES EDUCATION MAJOR

- Required courses: HIS 290, 390 in addition to the requirements for the Comprehensive Social Sciences Major.

- Part of entitlement program leading to certification: secondary 6-12.
- 24 hours in Professional Education (including student teaching) required.
 - University Studies courses selections must meet state certification requirements.
 - Special requirements for admission to the Teacher Education program must be met prior to student teaching.
- Students who wish to pursue these majors consult the advisor to Social Sciences students in the Department of History.

BIOLOGICAL SCIENCES (BSC)

206 Felmley Hall

Chairperson: G. Richard Hogan.

Faculty: Professors: Anderson, Birkenholz, Brockman, Brown, Chuang, Dilks, Frehn, Hetzel, Hogan, Huizinga, Liberta, Mockford, Nadakavukaren, Tone, Weber. Associate Professors: Cain, Cralley, Fitch, Jensen, Katz, McCracken, Preston, Thompson, Wilkinson. Assistant Professors: Armstrong, Brunner, Cheung, Collier, Drummond, Rascati, Riddle. Adjunct Faculty: Fierer, Kurtzman, McArdle, M. Miller, R. Miller, Reardon, Verner. Joint Appointments with Chemistry: Richardson, Tsang, Gates.

Biological Sciences Programs

Degrees Offered: B.A., B.S.

MAJOR IN BIOLOGICAL SCIENCES

B.A. Requirements

- 37 hours in Biological Sciences required.
- Required courses: BSC 121, 190, 201, 216, 219, 260, 304, with a minimum of 4 additional hours of laboratory courses. A lab course in organic chemistry is also required. BSC courses 100, 110, 111, 160, 170, 181, 182, 185, 202, 204, 303 and 307 **may not** be used as electives in major. Students electing this program should also consult University requirements for the B.A. degree.

B.S. Requirements

- 37 hours in Biological Sciences required.
- Required courses. BSC 121, 190, 201, 216, 219, 260, 304 with a minimum of 4 additional hours of laboratory courses. BSC courses 100, 110, 111, 160, 170, 181, 182, 185, 202, 204, 303 and 307 **may not** be used as electives in major. A laboratory course in organic chemistry (220 or 230, 231) and general physics (105, 108 or 110) is also required. Majors planning to attend professional or graduate school may need to take a full year of both organic chemistry and physics.

Teacher Education Sequence:

Before being admitted to the University Teacher Education Program (see University-wide Teacher Education Program Requirements in Catalog), the Biology Education major must meet departmental requirements for admission. These include a positive recommendation from the Teacher Education Committee. The recommendation is based in part on successful completion of a personal interview and a written essay. Students should see the Department Teacher Education Adviser for information. Part of entitlement program leading to certification: secondary 6-12.

- A student completing this major can meet the minimum qualifications to teach the following subjects as defined by the State Board of Education, Document 1, 7-3.18, 7-3.19, and 7-3.20: Biology, Zoology, Botany and General Science.

37 hours in Biological Sciences required. Required courses: BSC 121, 190, 201, 216, 219, 260, 304 and 307. At least 8 semester hours of botany with lab, and 8 semester hours of zoology with lab, must be included. A laboratory course in organic chemistry also is required. BSC courses 100, 110, 111, 160, 170, 181, 182, 185, 202, 204 and 303 **may not** be used as electives in major.

- B. A student completing this major can meet the minimum qualifications to teach the following subjects as defined by the State Board of Education, Document 1, 7-3.18, 7-3.19, and 7-3.20: Biology, Botany, Zoology, Chemistry, Physics, Physical Science, and General Science.

37 hours in Biological Sciences, 14 hours in chemistry including a laboratory course in organic chemistry, and 10 hours of general physics required. Required courses: BSC 121, 190, 201, 216, 219, 260, 304 and 307. BSC courses 100, 110, 111, 160, 170, 181, 182, 185, 202, 204 and 303 **may not** be used as electives in major. At least 8 semester hours of botany with lab, and 8 semester hours of zoology with lab must be included.

MINOR IN BIOLOGICAL SCIENCES

Biological Sciences Sequence: 24 hours in Biological Sciences required. Required courses: BSC 121, 190. At least 12 of the elective hours must be of 200 or 300 level courses. BSC 100, 110, 303, and 307 may not be used as electives in minor.

Human Biology Sequence: 24 hrs in Biological Sciences required. Required courses: BSC 181, 182. 16 hrs of electives selected from among BSC 145, 160, 170, 185, 199, 202, 216, 260, 283, 361, 380, 381, 382, 383, 386, and 387, 392, or other courses approved by the Biology Dept., at least 8 hrs of 200 level courses or above.

MINOR IN BIOLOGICAL SCIENCES EDUCATION

- 24 hours in Biological Sciences required including at least 8 semester hours of botany with lab and 8 semester hours of zoology with lab.
 - Required courses: BSC 121, 190, 307 (2 or 3 hrs, depending on major).
- BSC 100, 110 and 303 **may not** be used as electives in minor. At least 8 of the elective hours must be of 200 or 300 level courses.

Honors in Biological Sciences: Students majoring in Biological Sciences may be admitted to the departmental honors program if they have: 1) completed at least 30 semester hours of college level courses, including at least two in biological sciences, 2) a minimum of three semesters remaining before graduation, 3) a cumulative grade point average of 3.3, 4) submitted to the departmental chairperson two letters of recommendation from faculty members, and 5) received admission approval from the departmental honors committee.

In order to graduate with Honors in Biological Sciences a student must complete: 1) all regular requirements for the Biological Sciences major; 2) 1 year of a foreign language; 3) mathematics through one semester of calculus; 4) 12 hours of Biological Sciences on a tutorial (i.e., In- course Honors) with a grade of A or B in each; 5) 3 hrs. of BSC 299; and 6) have at the time of graduation a cumulative G.P.A. of at least 3.3 and at least 3.5 in courses in Biological Sciences.

Biological Sciences Courses

100 INTRODUCTION TO BIOLOGICAL SCIENCES 3 US-3 F.S

Not for credit maj min. Lecture and laboratory.

Biological principles in relationship to man.

110 GREEN THUMB BOTANY 3 F.S

Not for credit maj min or if had BSC 121 or AGR 150.

Lecture and laboratory. Materials charge optional.

Introduction to the basic principles of plant structure, function, growth, propagation, and disease with emphasis on applications to the growth of house plants.

111 PLANTS AND CIVILIZATION 3 F.S

Not for credit BSC maj.

Study of plants useful and important to mankind; concentrating on the diversity of plant uses, their origins, and influences on civilization.

121 GENERAL BOTANY 4 US-3 F.S

Lecture and laboratory.

Introduction to the principles of structure, function; growth, reproduction, and classification of plants.

145 HYGIENE AND THE BIOLOGY OF MAN 2 US-7 F.S

Practical human physiology and the nature of disease; emphasis on health problems related to nutrition, cardiovascular and respiratory diseases, drug use, sex and reproduction.

160 INTRODUCTORY MICROBIOLOGY 4 US-3 F.S

Not for credit maj or if had BSC 260. Lecture and laboratory.

Introduction to microorganisms, their application and relationship to man and his environment.

170 GENETICS AND SOCIETY 3 US-3 F.S

Not for credit maj.

Introduction to genetics and human heredity with an emphasis on the impact of recent advances in genetics upon society.

181 FUNCTIONAL ANATOMY OF MAN 4 US-3 F.S

Not for credit maj. Lecture and laboratory.

Fundamentals of anatomy and physiology for students in special education, health education, nursing, and psychology.

182 FUNCTIONAL ANATOMY OF MAN 4 US-3 F.S

BSC 181. Lecture and laboratory. Cont of 181.

185 INTRODUCTION TO EVOLUTION 3 US-3 F.S

Not for credit maj. Lecture.

Comprehensive survey of the processes of biological evolution, major trends in the plant and animal kingdoms, and the historical development of evolutionary theory and its impact on human society.

190 GENERAL ZOOLOGY 4 US-3 F.S

Lecture and laboratory.

Classification, morphology, physiology, genetics, evolution, and ecology of representative animal phyla.

195 INTRODUCTION TO OCEANOGRAPHY 3 US-3 S

Also offered as GEO 195.

General principles of biology, chemistry, geology, and physics as applied to a study of the world's oceans.

199 ANIMAL BEHAVIOR 3 US-3 F

Art introduction to ethology — the biology of behavior. Behavior studies as performed in the natural habitat. Invertebrates and vertebrates, including man, will be considered.

201 GENERAL ECOLOGY 4 F.S

BSC 121, 190 or equiv req. Lecture, laboratory, and field trips.

Relationships among living organisms and their environment at ecosystem, community, population, and individual levels.

202 ECOLOGY OF MAN 3 US-7 F.S

Not for credit maj.

A study of the general principles and applications of ecology with emphasis on man's place in the ecosystem and how environmental problems are related to fundamental ecological principles.

204 INTRODUCTION TO NATURAL HISTORY 4 US-3 F.S

Not for credit maj. Lecture, laboratory, and fieldwork.

The natural history of wildflowers, trees, birds, and mammals.

216 GENERAL PHYSIOLOGY 4 F.S

BSC 121 or 190 and org chem. Lecture and laboratory req.

Chemical and physical aspects of life processes.

219 GENETICS 4 F.S

BSC 121 and 190 req. Lecture and laboratory. Formerly BSC 319.

Data, concepts and logic of genetics from Mendel to the present.

222 COMPARATIVE PLANT MORPHOLOGY 4 S

BSC 121 req. Lecture and laboratory.

Morphology, phylogeny, and taxonomy of non-vascular and vascular plants.

223 ECOLOGY AND IDENTIFICATION OF PLANTS 4 F

BSC 121 req. Lecture and laboratory.

Ecology, phylogeny, and taxonomy of vascular plants.

258 EPIDEMIOLOGY 3 F

BSC 160 or 260, SAS 240 req. Also offered as HSC 258.

Principles and methods governing the surveillance and investigation of disease and injury in human populations.

260 MICROBIOLOGY 4 F.S

BSC 121 or 190 and org chem req. Not for credit if had BSC 160. Lecture and laboratory.

Uniqueness, diversity, ecology, molecular biology and practical applications of microorganisms.

283 ANIMAL PHYSIOLOGY 4 F.S

BSC 216 req. Lecture and laboratory.

The physical and chemical basis of system physiology with reference to invertebrates and vertebrates.

292 INVERTEBRATE ZOOLOGY 4 F

BSC 190 req. Lecture and laboratory.

Phylogeny, comparative functional anatomy, embryology, ecology, and natural history of the invertebrates.

294 ENTOMOLOGY 4 F

BSC 190 req. Lecture and laboratory.

Taxonomy and life histories of insects.

295 COMPARATIVE VERTEBRATE ANATOMY 4 F.S

BSC 190. Lecture and laboratory. Formerly BSC 192.

Evolution and comparative anatomy of vertebrates.

**300 and 301 READINGS IN
BIOLOGICAL SCIENCES 1 ea F.S**

Reading and discussion of classical and modern biological literature.

302 HISTORY OF BIOLOGY 3 F

A study of great biologists emphasizing their contributions to the development of the biological sciences.

**303 NATURAL SCIENCE FOR
ELEMENTARY TEACHERS 3 F.S**

Not for credit maj min.

Present-day developments in science instruction.

304 SEMINAR IN BIOLOGY I F.S

Oral and written reports on current topics in biology.

**305 SPECIAL PROBLEMS IN
BIOLOGY I-3 F.S**

Projects must be approved by the supervising faculty member and dept chair prior to reg. Maximum of 3 hrs from BSC 305 or 398 may be counted toward major requirements.

**306 REGIONAL AND AREA
STUDIES I-9**

Usually given cooperatively with other depts.

Intensive study of particular lands, environments, cultures and peoples.

**307 METHODS IN THE TEACHING
OF BIOLOGY 2-3 F**

C&I 200 (6 hrs.) or 200.03 (grade of C or better req.) or 215 or conc reg. Incl Clin Exp. BSC education major must register for 3 hrs. BSC Education minor, 2 or 3 hrs, depending upon major.

Methods, techniques, materials and problems peculiar to the teaching of biology in the secondary school. Required for students in teacher education.

308 FIELD BIOLOGY 3 Summer

BSC 121 and 190 or equiv req. BSC 201 or equiv rec.

Survey of representative ecological communities of Central Illinois.

**318 HISTOLOGICAL TECHNIQUES
FOR ZOOLOGISTS**

AND BOTANISTS 2 F.S

Lecture and laboratory. Formerly LABORATORY

TECHNIQUES

Preparation of microscope slides, special techniques for whole mounts, plastic embedding, plastic injections, and nerve preparations.

320 PLANT PATHOLOGY 4 F

BSC 121 req. Lecture and laboratory.

Morphology, life histories, host-parasite relationships and control measures for fungal, bacterial and viral pathogens.

321 ADVANCED GENETICS 4

BSC 219 and 260 or cons inst req. Lecture and laboratory.

Advanced topics in genetics emphasizing recent discoveries, methodologies and interactions of genetics with other biological sciences.

326 PLANT PHYSIOLOGY 4 S

BSC 216 req. Lecture and laboratory. Formerly BSC 217.

Plant structure and function: photosynthesis, translocation, growth and development. Laboratory emphasis on independent experimentation.

**331 TAXONOMY AND EVOLUTION
OF VASCULAR PLANTS 4 F**

BSC 121 req. Lecture and laboratory.

Plant classification and evolution with emphasis on native and naturalized species.

**333 EVOLUTIONARY MORPHOLOGY OF
VASCULAR PLANTS 4 F**

BSC 121 req. Lecture and laboratory.

Comparative survey of structure, life histories, reproductive mechanisms and evolutionary relationships of vascular plants.

334 INTRODUCTORY MYCOLOGY 3

BSC 121 req. Lecture and laboratory.

Morphology, taxonomy and evolution of the fungi.

**361 MICROBIAL
PATHOGENS OF MAN 4 F.S**

BSC 260 req. Lecture and laboratory. Formerly BSC 261.

Pathogenesis, identification, cultivation and classification of bacteria, viruses, fungi and animal parasites associated with diseases of man.

365 PHYCOLOGY 4 F

BSC 121 req. Lecture and laboratory.

Morphology, taxonomy, physiology and ecology of the algae.

367 IMMUNOLOGY 4

BSC 121 and 260, or cons inst req. Offered every third semester. Lecture and laboratory.

Molecular, cellular, transplantation and tumor immunology; laboratory techniques in immunology.

368 VIROLOGY 4

BSC 219 and 260 req. Lecture and laboratory.

An integrated view of virology including bacterial avian, insect, plant and animal viruses. Involvement of viruses in disease and cancer. Viral diagnostics.

380 HISTOLOGY 4

BSC 190 req. Lecture and laboratory. Formerly BSC 480.

Microscopic anatomy of cells, tissues and organs of vertebrates.

381 APPLIED HUMAN ANATOMY 4 F.S

BSC 182 or 295 or HPR 182 req. Lecture and laboratory.

Musculo-skeletal and nervous systems emphasized.

**382 THE EYE: A LABORATORY AND
CLINICAL STUDY 3 F**

Anatomy and physiology of the eye. Lecture and laboratory, supplemented with clinical demonstrations on the detection and care of eye disorders.

383 PARASITOLOGY 4 F

BSC 190 req. Lecture and laboratory.

Morphology, life histories and host-parasite relationships of arthropod, helminth and protozoan parasites.

386 GROSS ANATOMY 4 F

BSC 182 or 295 or HPR 182 req.

Human body exclusive of head and neck.

387 GROSS ANATOMY 4 S

BSC 182 or 295 or HPR 182 req. Not for credit if had BSC 381.

Human head, neck and neuroanatomy.

390 EVOLUTION 3 S

BSC 219 req.

Environmental, behavioral and genetic mechanisms involved in the processes of evolution.

391 INSECT MORPHOLOGY 4 S

BSC 190 req. Lecture and laboratory.

Comparative anatomy of the insects.

392 EMBRYOLOGY 4 F.S*Lecture and laboratory.*

Comparative embryology of the vertebrates with emphasis on avian and mammalian embryos.

394 PROTOZOOLOGY 4*BSC 190 req. Lecture and laboratory.*

Survey of the Phylum Protozoa, emphasizing morphology, physiology, reproduction and taxonomy.

395 BIOLOGY OF THE LOWER VERTEBRATES 4 S*BSC 190 req. Lecture and laboratory.*

The biology of fish, amphibians and reptiles.

396 BIOLOGY OF THE HIGHER VERTEBRATES 4 S*BSC 190 req. Lecture, laboratory and field trips.*

The biology of birds and mammals.

398 PROFESSIONAL PRACTICE IN BIOLOGY 2-6 F.S.Summer*In standing in Biological Sciences with 2.5 GPA in all natural sciences req. Not for grad credit. May be repeated. Max 16 hrs, but no more than 3 hrs from BSC 305 or 398 may be counted toward major requirements. Approval of departmental professional practice advisor req.*

Practical experience through employment in biological research facilities, zoological or botanical gardens, game reserves or environmental service. One credit per 50-60 hours work experience.

CHEMISTRY (CHE)

305 Felmley Hall

Chairperson: Douglas X. West.**Faculty:** Professors: Duty, House, Ichniowski, Kurz, Reiter, Richardson, Ryder, Shulman, Stevenson, Tsang, West. Associate Professors: Bunting, Clark, Hansen, Hunt, Rothenberger. Assistant Professors: Gates, Webb.

Chemistry Programs

Degrees Offered: B.A., B.S. The Department of Chemistry is on the approved list of the American Chemical Society.

B.S. CHEMISTRY MAJOR

- 37 hours required in Chemistry, including at least 27 hours in courses numbered 200 or higher.
- Required courses: CHE 140 and 141 (or 150), 230, 231, 232, 233, 315, 350, 360, 361, 362, 363.
- One year of physics, preferably PHY 110 and 111, and one year of calculus (through MAT 146) must be completed prior to enrolling for CHE 360; approved elective courses selected from CHE courses numbered 200 or higher.
- The following are highly recommended: one year of a foreign language, a course in computer programming, a course in technical writing and courses in biological sciences.

B.A. CHEMISTRY MAJOR

- 37 hours required in Chemistry, including at least 27 hours in courses numbered 200 or higher.
- Required courses: CHE 140 and 141 (or 150), 230, 231, 232, 360, 362; approved elective courses selected from CHE courses numbered 200 or higher.

Approved advanced elective courses from other natural

sciences departments may replace a maximum of 6 of the required 27 hours. Students electing this program should also consult University requirements for the B.A. degree.

MAJOR IN CHEMISTRY EDUCATION

- 37 hours required in Chemistry, including at least 27 hrs in courses numbered 200 or higher. CHE 301 required in addition to the required courses for either the B.S. or B.A. Chemistry Major. A Teacher education student may elect either option as part of the entitlement program leading to certification: secondary 6-12.

MINOR IN CHEMISTRY

- 23 hours required in Chemistry, including at least 13 hours in courses numbered 200 or higher.
- Required courses: CHE 140 and 141 (or 150).

MINOR IN CHEMISTRY EDUCATION

- 23 hours required in Chemistry, including at least 13 hours in courses numbered 200 or higher. CHE 301 required in addition to the required courses for the Minor in Chemistry.

Basic Chemistry Courses for Majors: Chemistry majors normally are expected to take CHE 140 and 141. A student who demonstrates high achievement in chemistry at the pre-college level may take CHE 150 in place of 140 and 141. CHE 110 and 114 may be taken in place of 140. This 6-hour sequence is designed for students who are not sufficiently prepared for CHE 140 and for students who elect to become Chemistry majors or minors after having completed CHE 110. Credit toward graduation is not given for both CHE 104 and 110, both CHE 110 and 140, or both CHE 114 and 140.

Chemistry Courses

102 SCIENCE AND MODERN MAN 3 US-3 F.S*Open only to students with no college credit in CHE.*

Selected topics from chemistry and science in general, and illustration of relevance of chemistry and other sciences to today's world.

104 ELEMENTS OF CHEMISTRY 4 US-3 F*Lecture and laboratory. Not for credit if had CHE 110. Materials charge optional.*

Survey of general chemistry, including organic and biochemistry. Designed for students in home economics and health related fields.

106 CHEMISTRY OF PHOTOGRAPHY 2*Lecture and demonstrations. Not for credit CHE maj min.*

An introduction to photographic chemistry in black and white and selected color processes. Designed primarily for students with some experience in photographic processing.

108 CHEMISTRY AND THE CONSUMER 2*A college chemistry course or cons inst. Not for credit CHE maj min.*

Chemistry of the production and use of common consumer products. A chemical approach to consumer education.

110 FUNDAMENTALS OF CHEMISTRY 4 US-3 F.S*Not for credit if had CHE 140, 141, or 150.*

One-semester introductory survey of fundamental con-

cepts, laws and theories of chemical science and their application to common chemical systems.

**112 FUNDAMENTAL CHEMISTRY
LABORATORY 1 US-3 F.S**

CHE 110 or conc reg. Materials charge optional.

Experience in manipulation of fundamental laboratory apparatus and means of carrying out chemical synthesis and measurements on chemical systems.

**114 FUNDAMENTALS OF CHEMISTRY
(SUPPLEMENTARY) 2 F.S**

CHE 110. Not for credit if had CHE 140.

Designed to bring the background of the student up through the level of CHE 140.

140 GENERAL CHEMISTRY I 5 US-3 F.S

First half of a two-semester sequence. Designed primarily for students with HS credit in CHE. Algebra is required. Not for credit if had CHE 110 or 114.

Fundamental principles of stoichiometry, periodicity, atomic structure, and thermochemistry with applications to gases, liquids, solids and solutions.

141 GENERAL CHEMISTRY II 5 US-3 F.S

CHE 114 or 140. Lecture and laboratory. Materials charge optional.

Continuation of CHE 140. Introduction to equilibrium, electrochemistry, acid-base theory, coordination compounds, inorganic and organic chemistry.

150 GENERAL CHEMISTRY 6 F

Lecture and laboratory. Satisfactory completion of 150 replaces the 140-141 requirement. Admission is by invitation based on the results of placement tests and other evaluation techniques. Materials charge optional.

Accelerated study of the fundamentals of chemistry, designed for the student who demonstrates exceptional ability at the pre-college level.

**215 FUNDAMENTALS OF ANALYTICAL
CHEMISTRY 3 F.S**

CHE 141 or 150. Lecture and laboratory. Materials charge optional.

Theory and practice of selected modern analytical methods.

**220 ELEMENTARY ORGANIC
CHEMISTRY 5 F.S**

CHE 112 or 141. Not for credit if had CHE 230. Lecture and laboratory. Materials charge optional.

One-semester survey of organic chemistry. For non-majors. Fundamental principles of structure and mechanisms of organic reactions.

230 ORGANIC CHEMISTRY I 3 F.S

First half of a two-semester sequence. CHE 141 or 150 and corequisite of CHE 231. No credit will be granted in CHE 230 until credit is earned in CHE 231. Not for credit if had CHE 220.

Introduction to chemistry of aliphatic and aromatic organic compounds.

**231 ORGANIC CHEMISTRY
LABORATORY I 2 F.S**

First half of a two-semester sequence. CHE 141 or 150 and corequisite of CHE 230. No credit will be granted in CHE 231 until credit is earned in CHE 230. Materials charge optional.

Laboratory practice illustrating preparations and reactions typical of functional groups.

232 ORGANIC CHEMISTRY II 3 F.S

CHE 230.

Continuation of CHE 230, including synthetic and mechanistic features of organic reactions.

**233 ORGANIC CHEMISTRY
LABORATORY II 2 F.S**

CHE 232, conc reg. Materials charge optional.

Laboratory practice in newer techniques and methods of organic chemistry.

242 BASIC BIOCHEMISTRY 3 F.S

One sem of organic chemistry. Not for credit if had CHE 342.

Introduction to the chemistry of carbohydrates, lipids, proteins, nucleic acids and enzymes. Brief treatment on vitamins and intermediary metabolism.

280 ENVIRONMENTAL CHEMISTRY 3 F

CHE 141 or 150 and any 200 level chemistry course.

Aquatic, soil, and atmospheric chemistry and the attendant problems of water, soil, and air pollution. Causes of pollutants and methods of analyzing for them.

290 RESEARCH IN CHEMISTRY 1-4 F.S

19 hours of CHE: Only three hrs are applicable towards the maj. Department form must be completed prior to registration. May be repeated. Max 6 hrs.

301 TEACHING OF CHEMISTRY 2-3 F

20 hrs of CHE. For teaching maj min only. CHE education min should register for 2 hrs. C&I 200 (6 hours) or 200.03 (grade of C or better) or 215 (2 hours) or conc reg. Incl Clin Exp.

Modern methods and curricula of high school chemistry.

302 INDUSTRIAL CHEMISTRY 3 S

One semester of organic chemistry.

Scientific and applied aspects of community and industrial problems.

315 ANALYTICAL CHEMISTRY 3 F.S

CHE 362 or conc reg. Lecture and laboratory. Materials charge optional.

Emphasis on modern instrumental methods of chemical analysis including electroanalytical, optical and chromatographic methods.

**323 QUALITATIVE ORGANIC
ANALYSIS 3 F**

CHE 233. Lecture and laboratory. Materials charge optional.

Identification of organic compounds with emphasis on modern spectrometric methods.

342 GENERAL BIOCHEMISTRY I 3 F.S

CHE 232 or one year of organic chemistry. Not for credit if had CHE 242.

Survey of the chemical and physical properties of amino acids, carbohydrates, lipids and nucleic acids, and structure and function of proteins, including enzyme kinetics.

343 BIOCHEMISTRY LABORATORY 3 F.S

CHE 342 or conc reg or CHE 242. Lecture and laboratory. Materials charge optional.

Application of biochemical principles and methods discussed in companion course, CHE 342.

344 GENERAL BIOCHEMISTRY II 3 F.S

CHE 342.

A survey of important aspects of intermediary metabolism, metabolic regulation, membrane transport and bioenergetics. Topics will include hormonal controls and immunological response.

350 INORGANIC CHEMISTRY 3 F.S

CHE 362.

Survey of modern inorganic chemistry including structure

of inorganic compounds, coordination chemistry, non-aqueous solvents and selected inorganic reactions.

360 PHYSICAL CHEMISTRY I 3 F.S
CHE 141 or 150; PHY 109 or 111; 8 hrs of CHE or PHY courses numbered 200 or higher; MAT 146.

First of a series in theoretical chemistry dealing with descriptions of gases, liquids, solutions, thermochemistry, thermodynamics, chemical and phase equilibrium, kinetic theory, and chemical kinetics.

361 PHYSICAL CHEMISTRY LABORATORY 1 F.S

CHE 360 or conc reg. Materials charge optional.

Laboratory applications of principles treated in physical chemistry.

362 PHYSICAL CHEMISTRY II 3 F.S
CHE 360.

Continuation of CHE 360, including ionic equilibrium, conductance, electromotive force, spectroscopy, molecular theory and miscellaneous applications of quantum theory.

363 PHYSICAL CHEMISTRY LABORATORY II 1 F.S

CHE 362 or conc reg. One three-hour laboratory period per week. Materials charge optional.

Laboratory studies of the derivations and applications of principles treated in physical chemistry.

380 TOPICS IN CONTEMPORARY CHEMISTRY 1-3 F.S

May be repeated.

New concepts and recent developments in the fields of organic, inorganic, analytical, physical and biochemistry.

398 PROFESSIONAL PRACTICE: INDUSTRIAL-GOVERNMENT INTERNSHIP IN CHEMISTRY 2-6 F.S Summer

CHE 232 and 233 or equiv. Jr or Sr standing in chemistry. 2.5 GPA in all science and mathematics courses. Not for grad credit or requirements for undergrad maj min in Chemistry. May be repeated. Max 16 hrs, but no more than 4 hrs per semester may be used to meet graduation requirements. Course offered as credit/no credit.

Practical experience by employment in an industrial or governmental laboratory, for two to five periods of one semester each.

COMMUNICATION (COM)

116 Stevenson Hall

Chairperson: William D. Semlak.

Faculty: Professors: Cragan, Smith, Streeter, Watkins, White, Wright. Associate Professors: Boaz, Holdridge, Jackson, Konsky, Semlak, Tcheng, Tuttle, Williams. Assistant Professors: Comadena, Cupack, Cutbirth, Hazleton, Hustust, Kapoor, Long, Metts, Petersen, M. Shelly, Wilford, Wisely. Instructors: Bolkcom, Brooks, Byrd, Day, Elzy, Howard, Jennings, La'uer, Link, Madsen, Moffitt, Rasmussen, Weber. Lecturers: Garee, Garvert, Hawkinson, Moore, K. Shelley, Smedley.

MINOR IN PUBLIC RELATIONS

— 24 hours required.
 — Required courses: COM 165, 178, 268, 297, 378. Note: Students seeking a minor in Public Relations who are

not majoring in Mass Communication are permitted to waive the COM 160 prerequisite for COM 165.

— A maximum of nine (9) hours counted toward the Public Relations minor may be applied toward a major or minor within the department.

— Nine (9) hours of COM electives selected from the following areas (*means highly recommended):

Graphics and Photography: 240*, 241*, 266, 365, and 366.

Organizational and Professional Communication: 202*, 227 (not recommended for declared Speech Communication majors), 228, 321*, 324*, 325, and 329*. Mass Communication and Production: 163*, 166*, 269, 362, 364*, 367, 368, and 385*.

Library Science-Instructional Media Programs

Degrees Offered: B.A., B.S. in Library Science.

MAJOR IN LIBRARY SCIENCE

— 37 hours in Library Science required.
 — Required courses: COM 101, 115, 120, 305, 306 or 307 or 308, 310, 312, 391. The remaining courses may be chosen within or outside the COM Library Science offerings, but in either case must be approved by the student's academic adviser.

MAJOR IN LIBRARY SCIENCE EDUCATION

— 37 hours in Library Science required. Part of entitlement program leading to certification: secondary 6-12.
 — Required courses: COM 101, 115, 120, 240, 301, 305, 306, 307, 310, 312, 365, 391. It is strongly recommended that COM 170 or 242 or 271 be considered as electives.
 — Clinical experiences are included in COM 101, 115, 240, 301, 305, 306, 307, 310, 312, 365 and 391. Additional opportunities are available through departmental programs.

MINOR IN LIBRARY SCIENCE

— 19 hours in Library Science required.
 — Required courses: COM 101, 115, 305, 306 or 307 or 308, 310, 312. COM 120 and 391 are recommended for students preparing for graduate work in Library Science.

MINOR IN LIBRARY SCIENCE EDUCATION

— 19 hours in Library Science required.
 — Required courses: COM 115, 240, 305, 306 or 307, 310, 312.
 — Clinical experiences for Library Science are included in COM 101, 115, 240, 301, 305, 306, 307, 310, 312, 365 and 391. Additional opportunities are available through departmental programs.

MINOR IN INSTRUCTIONAL MEDIA

— 24 hours required.
 — Required courses: COM 240, 241, 365, 366; 12 hours selected from ART 101, 103, 104, 109, 226; COM 160, 162, 163, 310, 337, 362; IT 190, 210, 250, 251, 253.
 COM 240, 241, 365, and 366 cannot be used to satisfy the requirements for both a major in Library Science and a minor in Instructional Media.

Mass Communication Programs

Degrees Offered: B.A., B.S.

MAJOR IN MASS COMMUNICATION

- 36 hours required. Note: Transfer into the Mass Communication Major requires a 2.5 GPA.
- Required courses (21 hrs. in Broadcasting; 27 hrs. in Journalism): COM 160, 260, 360, 361. Either COM 162, 163, and 264 in Broadcasting or COM 165, 166, 265, 269, and 385 in Journalism.
- Electives (15 hours) for emphasis in Broadcasting or (9 hours) for emphasis on Journalism selected from COM 110, 161, 162, 163, 165, 166, 167, 263, 264, 265, 266, 267, 268, 269, 270, 287, 289 (Applied Communication Delivery Systems), 296, 297, 362, 363, 364, 368, 369, 380, 385, 398.

Admission Requirements: To gain final admission to the Mass Communication major program, students must have completed at least 45 semester hours, 15 of which have been earned at Illinois State. In addition, students will normally be expected to have completed COM 160 (or its equivalent at another institution) with a grade of C or better, and to have a grade point average at Illinois State of 2.5 or better. (Exemptions from the COM 160 and GPA requirements may be made for students from academically disadvantaged backgrounds who demonstrate a potential for academic success. Exceptions are granted on the recommendation of the Mass Communication adviser and the department chairperson.) Students must complete a formal application with the Department of Communication. Further information on admission procedures is available in the department.

MINOR IN MASS COMMUNICATION

- 18 hours required.
- Required Course: COM 160.
- 15 hours of electives selected in consultation with an academic adviser from COM 110, 161, 162, 163, 165, 166, 167, 260, 263, 264, 265, 266, 267, 268, 269, 270, 287, 289 (Applied Communication Delivery Systems), 296, 297, 360, 361, 362, 363, 364, 368, 369, 380, 385, 398.

MINOR IN JOURNALISM EDUCATION

- 24 hours required. Typing ability is a prerequisite to this minor.
- Required courses: COM 160, 165, 166, 265, 266, 269, 385.
- Electives: COM 268 or IT 250.

Honors in Mass Communication: The Department of Communication offers students an opportunity to demonstrate outstanding achievement in the study of Mass Communication by means of participation in the Departmental Honors Program. The department also offers in-course honors work in all its courses at the discretion of the instructor for students enrolled in the Honors program. Qualified students are encouraged to inquire about admission by contacting the chairperson of the department.

Speech Communication Programs

Degrees Offered: B.A., B.S.

MAJOR IN SPEECH COMMUNICATION

- 30 hours required.
- Required courses: COM 110, 297.
- A minimum of 6 hours must be at the 300 level (excluding 380 and 398).
- 24 hours of electives selected from the following groups of courses: minimum of 3 hours selected from Interpersonal and Group Variables courses (COM 123, 175, 210, 223, 225, 227, 228, 323, 325, 329, 370); minimum of three hours from Rhetorical Variables courses (COM 125, 201, 202, 203, 226, 302, 303, 304, 321, 324, 371); minimum concentration of six additional hours from one of the above groupings of courses. Other electives available from Communication Methods and Research courses include COM 296, 380, 398. Electives available from Educational Variables courses include COM 199, 242, 280, 281, 330, 381.

MAJOR IN SPEECH COMMUNICATION EDUCATION

- 40 hours required. Part of entitlement program leading to certification: secondary 6-12.
- Required courses (28 hours): COM 110, 123, 125, 199, 202, 223, 281, 297, 324, 381.
- Elective courses (12 hours) chosen from two of the following groups:
 - Group A (Small Group/Interpersonal), 6 hours from COM 225, 323, 329, 370.
 - Group B (Social Communication), 6 hours from COM 175, 201, 303, 304, 371.
 - Group C (Rhetorical Criticism), 6 hours from COM 226, 302, 321.
 - Group D (Education), 6 hours from COM 242, 280, 296, 330, 380, 398.
 - Group E, 6 hours from COM 160, 360; THE 101, 341 (not for credit THE maj, min); PAS 311.
- Clinical experiences are included in COM 199, 202, 223, 281, 380, 398. Additional opportunities are available through other departmental programs.

Students majoring in Speech Communication Education are advised that if they have a minor other than English, they must have 6 semester hours in rhetoric and composition to meet state teaching standards.

MINOR IN SPEECH COMMUNICATION

- 18 hours required.
- Required course: COM 110.
- A minimum of 3 hours must be at the 300 level (excluding 380 and 398).
- 15 hours of electives selected from COM 123, 125, 199, 201, 202, 203, 223, 227, 228, 297, 302, 303, 304, 321, 323, 324, 325, 329, 330, 370, 371.

MINOR IN SPEECH COMMUNICATION EDUCATION

- 25 hours required.
- Required courses (22 hours): COM 110, 123, 125, 199, 223, 281, 297, 324.
- Electives (3 hours) selected from COM 160, 201, 202, 210, 225, 226, 296, 302, 303, 304, 321, 323, 325, 329, 330, 360, 370; THE 101, 341; PAS 311.

Students minoring in Speech Communication Education or Journalism Education are advised that if they have a major other than English, they must have 6 semester hours in rhetoric and composition to meet state teaching standards.

Honors in Speech Communication: The Department of Communication offers honors work in Speech Communica-

tion to highly qualified students who wish to pursue individualized programs of study. The department also offers in-course honors work in all its courses at the discretion of the instructor for students enrolled in the University Honors program. Students interested in participating in the department's Honors program may secure further information by contacting the chairperson of the department.

Communication Courses

101 THE LIBRARY IN SOCIETY 3 F

Incl Clin Exp. Formerly INF 101.

Survey of librarianship and areas of service. Significance and responsibilities of contemporary libraries. Professional organizations, standards, library legislation.

102 LIBRARY AND INFORMATION RESOURCES 3 F.S

Not for credit if had COM 115.

Study of the role of information in society and development of competencies for retrieving information from libraries and other sources.

110 FUNDAMENTALS OF SPEECH COMMUNICATION 3 US-1 F.S

Formerly INF 110.

Theory and practice in developing skills in interpersonal, small group, and public communication. Preparation and presentation of speeches and participation in various communication activities.

115 BASIC REFERENCE SOURCES 3 F

Incl Clin Exp. Formerly INF 115.

Basic reference sources for libraries with collection of printed and non-printed material. Criteria for evaluating reference books and practical experience in using them.

120 HUMAN RECORDS AND LIBRARIES 3 S

Formerly INF 120.

Human communication from earliest records to invention of printing and advent of mass media: libraries and their growth in relation to these developments and to society.

123 INTERPERSONAL COMMUNICATION 3 US-1 F.S

Formerly INF 123.

An introduction to two-person interaction in a variety of contexts.

125 ARGUMENTATION 3 US-1 F.S

Formerly INF 125.

Theory and practice of advocacy.

140 INTRODUCTION TO THE COMPUTER WORLD 3 US-7 F.S

Also offered as ACS 140. Formerly INF 140.

A nontechnical course designed to develop effective computer users and to acquaint the students with the impact of computers on the person and society. No previous computer experience or mathematics requirements necessary.

160 INTRODUCTION TO MASS COMMUNICATION 3 F.S

Formerly INF 160.

Mass Media development and function in modern society: technological basis, economic and political foundations, social implications.

162 RADIO PRODUCTION 3 F.S

COM 160 req. 2 hrs. lecture, 2 hrs. laboratory. Materials charge optional. Formerly INF 162.

Skills in utilizing equipment and procedures necessary to produce programs for radio. Script writing and directing included.

163 TELEVISION PRODUCTION 3 F.S

COM 160 req. 2 hrs lecture, 2 hrs laboratory. Formerly INF 163.

Development of skills necessary in producing a television program. Function of television equipment and facilities. Evaluation of current production techniques. Producing and directing included.

165 REPORTING I 3 F.S

COM 160 and typing ability req. Formerly INF 165.

Intensive training in the fundamentals of newsgathering and newswriting.

166 COPY EDITING 3 F.S

COM 160, 165 req.

Advanced training in rewriting and editing stories, headlines, writing, page layouts, and work on a campus publication.

167 BROADCAST NEWS I 3 F.S

COM 160, 165 req. Formerly INF 167.

Provide an understanding of the role of the broadcast journalist and develop some of the basic skills of the profession.

170 LITERATURE FOR THE ELEMENTARY SCHOOL 3 F.S

Also offered as ENG 170. Formerly INF 170.

Prose and poetry for kindergarten through eighth grade; emphasis on classics, best of twentieth-century works, folklore heritage, and mythology.

175 BLACK REVOLUTIONARY COMMUNICATION 3 F

Formerly INF 175.

178 INTRODUCTION TO PUBLIC RELATIONS 3 F.S

COM 110 and ENG 101 rec.

Examines functions of public relations in society and surveys concepts, theories, and principles of effective public relations.

199 PRACTICUM IN SPEECH COMMUNICATION 1 F.S

May be repeated. Max 4 hrs. Incl Clin Exp. Formerly INF 199.

Training and participation in speech activities.

201 COMMUNICATION AND SOCIAL ISSUES I 3 F

COM 110 rec. Formerly INF 201.

Criticism of communicative discourse concerning reform movements, religious controversy, socialism, and other topics.

202 PERSUASIVE PUBLIC SPEAKING 3 F.S

COM 110 rec. Incl Clin Exp. Formerly INF 202.

Provides the student an opportunity to develop skills in persuasive speaking in a variety of situations. Focuses on message content and organization appropriate for different situations.

203 POPULAR CULTURE 3 S

COM 110 rec. Formerly INF 203.

Survey of selected topics, research techniques, and media used for persuasive ends within the popular culture.

210 PRINCIPLES OF PARLIAMENTARY PROCEDURE 3 S

Formerly INF 210.

Formal instruction in main, subsidiary, privileged, and

incidental motions. Basic tenets of parliamentary law including relationship of principles of parliamentary procedure to bylaws and governance documents are covered. Actual practice provided in the conduct of business meetings. Functions of major officers of the assembly are discussed and demonstrated.

223 SMALL GROUP PROCESSES 3 US-1 F.S

Incl Clin Exp. Formerly INF 223.

Theory and practice in reflective group discussion methods.

225 NONVERBAL COMMUNICATION 3 F.S

COM 110 rec. Formerly INF 225.

Consideration of gesture, space, time, touch, objects, environment, voice, and eye behavior, and their relationship to communication and culture.

226 CLASSICAL RHETORIC 3

Formerly INF 226.

Analysis of classical rhetoricians and rhetorics, from the early Greek sophists to Saint Augustine, with special attention to impact on modern theory construction.

227 ORGANIZATIONAL AND PROFESSIONAL SPEAKING 3 F.S

Formerly INF 227: BUSINESS AND PROFESSIONAL SPEAKING.

Learning experiences in critical analysis of communication events, group problem solving, interviewing, technical speaking, and persuasive speaking.

228 INTRODUCTION TO INTERVIEW 3 F.S

Formerly INF 228.

Learning experiences in the selection, organization, oral presentation of ideas through the interview situation. The course stresses the informational context of communication when interviewing.

240 UTILIZATION OF AUDIOVISUAL MATERIALS 3 F.S

Lecture and laboratory. Incl Clin Exp. Materials charge optional. Formerly INF 240.

Surveys the theory, materials, and methodology of instructional technology. Laboratory experiences include equipment operation, evaluation of materials, and basic graphic production techniques.

241 BASIC PHOTOGRAPHY 3 F.S

Materials charge optional. Student must provide own 35 mm adjustable camera, meter, and flash. Lecture and laboratory. Not for credit if had COM 266. Formerly INF 241.

Camera manipulation, lighting, composition, and darkroom procedures.

252 ELECTRONIC EDITING 3

COM 165.

Training in principles and practice of editing on computer terminals for use in print journalism.

260 MASS COMMUNICATION: CULTURAL CRITICISM AND PROBLEMS 3 F.S

COM 160 req. Formerly INF 260.

The mass media as a social system. Its impact on the cultural and economic life of the nation. The need for continuing decisions regarding public policy.

263 ADVANCED TELEVISION PRODUCTION 3 F.S

COM 160, 163 req. 2 hrs lecture, 4 hrs laboratory. Formerly INF 263.

Creating visual appeal through the television medium. Aesthetics in preparing television programs. Advanced producing/directing techniques in commercial broadcasting and television as an art form.

264 BROADCAST PROGRAMMING 3 F.S

COM 160 req. Formerly INF 264.

The format and scheduling of programs as practiced by station and network management and viewed from the perspective of the advertiser, the manager, the consumer, and the government.

265 REPORTING II 3 F.S

COM 160, 165 req.

Advanced training in newsgathering and newswriting with practical application.

266 PHOTO JOURNALISM 3 F.S

COM 160, 165 rec. Not for credit if had COM 241.

Materials charge optional. Formerly INF 266.

Development of skills and techniques in the production of still photographs for printed publication and television.

267 BROADCAST NEWS II 3 F.S

COM 160, 165, 167 req. Formerly INF 267.

Refinement of skills in broadcast news through laboratory work on daily television newscasts.

268 COMMUNITY RELATIONS 3 F.S

COM 165 req. Formerly INF 268.

Introduction to public relations functions and training in production of news releases, news letters and other publications for employees and communities.

269 SPECIALIZED PUBLICATIONS 3 S

COM 165 req. Formerly INF 269.

Training in editing, management, production and finance of magazine, small newspapers, and annual reports. Instruction applicable to advisement of school publications.

270 DOCUMENTARY IN FILM AND BROADCASTING 3 S

Also offered as THE 270. Formerly INF 270.

Historical, philosophical, and theoretical consideration of documentary approach in films, television, and radio.

271 LITERATURE FOR LOWER GRADES 3 F.S

Also offered as ENG 271. Does not repeat material of COM 170. Formerly INF 271.

Wide reading in variety of books available for kindergarten and primary grades, criteria for book selection, development of literature programs.

272 LITERATURE FOR UPPER GRADES 3 F.S

Also offered as ENG 272. Does not repeat material of COM 170. Formerly INF 272.

Wide reading in variety of books available for grades four through eight, criteria for book selection, development of literature programs.

281 PRINCIPLES OF SPEECH EDUCATION 3 F

C&I 200 (6 hours) or 200.03 (grade of C or better req) or 215 (2 hours) req. Incl Clin Exp. Formerly INF 281.

Methods and materials for teaching secondary speech communication. Planning and applying strategies, methods of measurement, classroom criticism of performance, selection and compilation of materials.

296 INDEPENDENT RESEARCH IN COMMUNICATION 3 F.S

Project approval by chair and inst prior to reg. Formerly INF 298.

297 COMMUNICATION RESEARCH METHODS	3	F.S	
Formerly INF 297.			
Methods of scholarly research and critical evaluation of research.			
301 ADVANCED REFERENCE SOURCES	3	S	
Incl Clin Exp. Formerly INF 301.			
The selection, use, and evaluation of print and non-print reference materials in selected subject field.			
302 COMMUNICATION CRITICISM	3	S	
Formerly INF 302.			
The course develops critical skills for describing, interpreting and evaluating communication from different theoretical perspectives.			
303 CONTROVERSY AND CONTEMPORARY SOCIETY	3	S	
Formerly INF 303.			
Contemporary communication on current significant, controversial issues.			
304 FREEDOM OF SPEECH AND PRESS	3	S	
Formerly INF 304.			
A study of First Amendment rights. Emphasis on Supreme Court decisions relating to political dissent, obscenity, provocation and demonstration, and press freedom.			
305 BUILDING AND MAINTAINING LIBRARY COLLECTIONS	3	F	
Incl Clin Exp. Formerly INF 305.			
A survey of general selection aids, principles of selection, criteria for evaluation. Development of a materials selection policy, intellectual freedom and censorship.			
306 LIBRARY MATERIALS FOR CHILDREN	3	S	
COM 305 rec. Incl Clin Exp. Formerly INF 306.			
Selection, evaluation and use of media in various subject areas. Use of materials in meeting individual interests, needs, and abilities of children.			
307 MEDIA FOR YOUNG ADULTS	3	F	
COM 305 rec. Incl Clin Exp. Formerly INF 307.			
Selection, evaluation, and use of media for young adults in public and secondary school libraries. Materials are related to development of young people and to the school curriculum.			
308 LIBRARY MATERIALS FOR ADULTS	3	S	
COM 305 rec. Formerly INF 308.			
Evaluation, selection, and use of materials/media for adults. A study and analysis of interests and information needs.			
310 ORGANIZATION OF LIBRARY MATERIALS	4	F.S	
Supervised laboratory work. Incl Clin Exp. Formerly INF 310.			
Principles of cataloging and classification and their application in organizing media collections; Dewey Decimal Classification System and the Anglo-American cataloging code.			
312 ADMINISTERING LIBRARIES	3	F	
Incl Clin Exp. Formerly INF 312: ADMINISTRATION OF THE LIBRARY MATERIALS CENTER.			
Principles and procedures in planning, directing, and evaluating library organizations.			
319 COMPUTER GRAPHICS	3	F.S	
Also offered as IT 319. Materials charge optional.			
Formerly INF 319.			
Combination of graphic techniques and computer programming as means of industrial communication applied to solution and interpretation of technological problems.			
321 MESSAGE COMPOSITION	3	F	
COM 110 rec. Formerly INF 321.			
The application of communication theory and research to the composition of informative and persuasive messages. Emphasis: organizational and language factors affecting mediated and non-mediated communication.			
323 THEORY AND RESEARCH IN SMALL GROUP COMMUNICATION	3	F.S	
COM 110, 297 rec. Formerly INF 323.			
Theoretical and experimental literature dealing with small group communication processes.			
324 THEORY AND RESEARCH IN PERSUASION	3	S	
COM 110, 297 rec. Formerly INF 324.			
A survey of contemporary theoretical and empirical literature dealing with the question of how an individual's attitudes, beliefs, and social behaviors are affected by communication.			
325 THEORY AND RESEARCH IN INTERPERSONAL COMMUNICATION	3	S	
COM 110 and 297 rec.			
Analysis of interpersonal communication and research and its implications for developing, maintaining, and terminating relationships. Focus on developing communicative competence.			
326 LIBRARY SERVICES FOR SPECIAL GROUPS	3	S	
Formerly INF 326.			
Trends in the development of services, primarily by public libraries in the United States and in Illinois, for groups with unique needs.			
327 SPECIAL LIBRARIES	3	F	
Supervised field trips. Formerly INF 327.			
Survey of the services and functions of the major types of special libraries.			
329 ORGANIZATIONAL COMMUNICATION	3	F.S	
COM 110 rec. Formerly INF 329.			
An examination of theoretical and experimental literature dealing with communication in an organizational setting.			
330 DIRECTING THE FORENSIC PROGRAM	3		
COM 110 rec. Formerly INF 330.			
Theoretical and procedural aspects of organizing and maintaining a debate and individual speaking events program.			
337 PROGRAMMED LEARNING	3	F	
Formerly INF 337.			
Construction and evaluation of programmed sequences for various media; analysis and application of theories as they relate to instruction.			
340 COMPUTER APPLICATIONS IN EDUCATION	3	S	
Examination and discussion of the ways computers may be used in education. Emphasis on selection, production, and evaluation of computer instructional programs.			
345 INTRODUCTION TO LIBRARY TECHNOLOGY	3	F	
Formerly INF 345.			

Application of mechanized, automated and computerized equipment to achieve economy, efficiency and speed in library operations. Analysis and design of library systems.

346 AUTOMATED BIBLIOGRAPHIC CONTROL 3 S
COM 310 or cons inst.

Operation, characteristics, and applications of automated bibliographic networks, emphasizing OCLC subsystems with introduction to such subsystems as BALLOTS and RLIN.

360 MASS COMMUNICATION: THEORY AND EFFECTS 3 F.S
COM 160 req. Formerly INF 360.

A critical examination of channel and receiver variables and their effects on the act of moving information through a given medium. Students participate in at least one research project of their design.

361 REGULATION OF THE COMMUNICATION INDUSTRY 3 F
COM 160 req. Lecture and laboratory. Formerly INF 361.

The legal background of mass media, specific laws affecting media operations, and industry efforts at self regulation.

362 INSTRUCTIONAL TELEVISION 3 F.S
Lecture and laboratory. Formerly INF 362.

Television as a means of instruction in terms of research, technique, utilization and evaluation.

363 PRIVACY AND INFORMATION PROCESSING 3 F
Formerly INF 363.

An examination of concepts about individual privacy as related to the processing of information in a technological society. The study of institutional procedures with regard to the dissemination of sensitive information.

364 BROADCAST AND MANAGEMENT 3 S
COM 160, 264 rec. Formerly INF 364.

The role and functions of broadcast media managers in society.

365 FUNDAMENTALS OF GRAPHIC PRODUCTION 3 F.S
COM 240 rec. Lecture and laboratory. Incl Clin Exp. Materials charge optional. Formerly INF 365.

Fundamental skills and techniques for mounting, lettering, coloring, illustrating and reproducing graphic materials.

366 GRAPHIC DESIGN AND PRODUCTION 3 S
COM 365 rec. Lecture and laboratory. Materials charge optional. Formerly INF 366.

Design and practice in the application of skills and knowledge to specific production problems. Student must integrate skills, knowledge of materials, design, and communication theory.

367 AUDIO PRODUCTION 3 F
Lecture and laboratory. Materials charge optional. Formerly INF 367.

Selection, evaluation, production, operation and maintenance of audio devices and materials.

368 MOTION PICTURE PRODUCTION 3 S
Lecture and laboratory. Materials charge optional. Formerly INF 368.

Theory and practice in planning and producing motion pictures. Considers treatments, storyboard, script writing, shooting, editing, taping and technical problems of production. Student provides film and processing.

369 INTERNATIONAL COMMUNICATION SYSTEMS 3 S

Examination of mass communication systems employed in foreign countries, their roles in national and international social and cultural development.

370 PSYCHOLOGY OF LANGUAGE 3 S
COM 110, 297 rec. Formerly INF 370.

Theories and experimental research relating to the development and functions of language.

371 POLITICAL COMMUNICATION 3-4 .F
6 hrs COM, or 6 hrs POS rec. Formerly INF 371.

Basic theory and research relating to political campaign communication. Special attention is paid to the persuasive process of political campaigning focusing upon the role of the media, the candidate, image creation and other selected topics on political campaign communication.

374 STORYTELLING 3 S
Also offered as ENG 374. Formerly INF 374.

The art of storytelling based on knowledge of folklore heritage with experiences in oral transmission of literature in library or classroom settings.

378 APPLICATIONS IN PUBLIC RELATIONS 3 F.S
COM 165 req. Undergraduate credit only. Formerly INF 378.

Principles and procedures for the professional practice of public relations. Students prepare case study notebooks and publicity campaign packages.

380 DIRECTED PROJECTS 1-3 F.S
Complete dept. application prior to registration. Formerly INF 380.

Arranged on-campus practical experience under the guidance of department academic supervisors. 6 hours of 398 and/or 380 credit are applicable to the major; 18 hours of 398 and/or 380 credit are applicable to graduation.

381 PROBLEMS IN THE TEACHING OF COMMUNICATION 3 S

C&I 200 (6 hours) or 200.03 (grade of C or better req) or 215 (2 hours) req or conc reg. Incl Clin Exp. Formerly INF 381.

Identification of common and unique problems in teaching communication concepts and skills. Approaches to resolving classroom problems.

385 EDITORIAL AND FEATURE WRITING 3 F.S

Formerly INF 385. Advanced training in writing feature articles and editorials for newspapers and magazines.

386 TECHNICAL COMPUTER PROGRAMMING 3

Also offered as IT 386. Laboratory arranged. Materials charge optional. Formerly INF 386.

Digital computer systems, programming digital computers and their use in solving problems related to applied sciences and technologies.

391 PROFESSIONAL METHODS IN LIBRARY SCIENCE AND INSTRUCTIONAL MEDIA 3 F.S

Sr in Library Science or grad standing in Instructional Media or cons inst. Incl Clin Exp. C&I 200 (6 hours) or 200.03 (grade of C or better req) or 215 (2 hours) req or conc reg. Formerly INF 391.

Identification, examination and appraisal of professional methods, competencies, standards of practice and current issues and problems in the library science and instructional media field.

392 TOPICS IN COMMUNICATION**INSTRUCTION 1****Summer**

*Cons inst req. May be repeated if content different.
Max 3 hrs toward grad.*

Identification and development of new instructional content, approaches, strategies, and materials for selected oral communication concepts in educational and business classrooms. Topic .01 Teaching small group in communication classrooms; Topic .02 Teaching listening; Topic .03 Teaching non-verbal; Topic .04 Teaching interpersonal; Topic .05 Teaching public speaking; Topic .06 Teaching interviewing; Topic .07 Teaching mass communication in speech classroom. Consult the Directory of Classes for topics to be offered during any given summer.

398 PROFESSIONAL PRACTICE 1-12 F.S

Complete dept. application prior to registration. Formerly INF 398.

Arranged off-campus practical experience under the guidance of professionally qualified academic and agency supervisors. 6 hours of any combination of 398 and 380 credit are applicable to the major.

ECONOMICS (ECO)**425 Stevenson Hall****Chairperson:** Alan E. Dillingham.

Faculty: Professors: Chizmar, Harden, McCarney, Owen, Ram, Singh. Associate Professors: Dillingham, Hiebert, Ostrosky, Ramsey. Assistant Professors: Allen, Anyetei, Brandt, Coffin, Cohn, Eike, El-Mofty, Linsley, Nelson, Nyman, Skaggs, Stanley, Stevens, Stuart, Wyzan, Worley. Instructors: Barker, Wasserkrug, Wingler.

Economics Programs

Degrees Offered: B.A., B.S.

MAJOR IN ECONOMICS

— 27 hours in Economics required.
— Required courses: ECO 100, 101, 130, 131, 240, 241. MAT 121 or 145 may be substituted for ECO 130. MAM 100 may be substituted for ECO 131. FAL 217 may be substituted for ECO 239 as an elective in the major; however, a minimum of 21 hours of coursework from the Department of Economics must be included in the major.

Concentrations: Students majoring in Economics may elect (but are not required to elect) a Business and Government, Graduate School, or Social Sciences concentration. Although no specific courses are required for these concentrations, recommended courses for each are listed below:

1. **Business and Government:** Required courses above plus FAL 210 and 211, ACC 131 and 132, and ACC 160 or ACS 168.
2. **Graduate School:** Required courses above plus ACS 168; MAT 146, 147, 175, 350, 351; ECO 330, 331, and 333.
3. **Social Sciences:** Required courses above plus 12 hours in the Social Sciences (POS, PSY, SAS) with at least one course from each of these three departments.

MINOR IN ECONOMICS

— 18 hours in Economics required.
— Required courses: ECO 100, 101.
— MAT 121 or 145 may be substituted for ECO 130. MAM

100 may be substituted for ECO 131. FAL 217 may be used to meet the requirements of the minor; however, a minimum of 15 hours of coursework from the Department of Economics must be included in the minor.

MINOR IN ECONOMICS EDUCATION

— Program requirements are the same as those for the Minor in Economics.

Concentration in Quantitative Economics: This program is available to students under the Comprehensive Arts and Sciences major and under the Contract Major. Courses in this program should include ECO 100, 101, 131, 240, 241, 330, 331, and 333; MAT 145, 146, 147, 175, 350, 351. Interested students may contact the department chairperson in either Economics or Mathematics.

Honors in Economics: Candidates for honors must be ECO majors with a grade point average of 3.30 overall and 3.75 or higher in economics courses. Students will be expected to complete 6 hours of course work designated as honors course work within the Department of Economics. These could be 100 and 101 honors, or two in-course honors at the 200 or 300 level. The in-course honors requires individual negotiation with a faculty member teaching the course. In addition, the achievement of honors requires the writing of a substantial original paper. The student will enroll in Independent Honors Study and will receive help from the faculty member to whom he or she is assigned. At the end of the semester the student will make an oral presentation of the paper to a meeting of Omicron Delta Epsilon, the Economics Honor Society. One copy of the original paper will be kept in the department office and be available for inspection. Honors credit will show on the official transcript and will be stated on the diploma.

Economics Courses**100 PRINCIPLES OF ECONOMICS I 3 US-5****F.S**

Elements of supply and demand analysis, national income determination, the banking system, fiscal and monetary policy, international finance (or balance of payments problems) and economic growth and development.

101 PRINCIPLES OF ECONOMICS II 3 US-5**F.S**

Foundations of supply and demand, behavior of firms under various market structures, factor pricing and the distribution of income, international trade.

130 INTRODUCTION TO MATHEMATICAL ECONOMICS 3**F.S**

ECO 101, MAT 120.

A systematic exposition of basic mathematical methods; algebra, calculus, and linear algebra and the relation of these techniques to various types of economic analyses.

131 BUSINESS AND ECONOMIC STATISTICS 3-4**F.S**

ECO 101, MAT 120 or cons inst req. Not for credit if had MAM 100. Sections without lab receive 3 hours credit.

Introduction to statistical concepts and methods most useful in business and economic analysis. Topics include descriptive statistics, techniques of hypothesis testing, interval estimation and linear regression.

202 CURRENT ECONOMIC ISSUES 2-3**Summer**

ECO 100, 101 req.

Application of introductory principles to world economic

problems, such as energy, pollution, poverty and unemployment.

205 DEVELOPMENT ECONOMICS 3 F.S
ECO 100, 101.

Principal determinants of economic development and problems associated with generating and accelerating economic growth in less-developed areas.

210 COMPARATIVE ECONOMIC SYSTEMS 3 F.S
ECO 100, or 101.

Theoretical and descriptive aspects of Capitalism, Communism, Fascism and Socialism. Emphasis given to process of economic decision-making with respect to allocation of resources and economic growth.

215 MONEY AND BANKING 3 F.S
ECO 100.

Development and growth of the monetary system. Emphasis on monetary theory and applied policy issues.

225 LABOR ECONOMICS AND LABOR PROBLEMS 3 F.S
ECO 100, 101.

Economic aspects of labor and trade unionism. Emphasis on wage determination, bargaining, manpower and unions.

239 MANAGERIAL ECONOMICS 3 F
ECO 101 req. Not for credit if had FAL 217. Formerly ECO 339.

Theoretical and applied study of demand, cost, and production related to the theory of the firm. Developments of current interests; empirical studies intended to affirm or disaffirm applicability of economic principles.

240 INTERMEDIATE MICROECONOMIC THEORY 3 F.S
ECO 100, 101 req. ECO 130 or equiv rec. Formerly ECO 340.

Emphasis on topics regarding resource allocation, scarcity, and distribution of income; theory of consumer choice, theory of the firm, market structures, factor markets, distribution of income, welfare economics, and general equilibrium.

241 INTERMEDIATE MACROECONOMIC THEORY 3 F.S
ECO 100, 101 req. ECO 130 or 215 rec. Formerly ECO 341.

Theory of income, employment, interest rate and price level determination. The government's influence on these variables via monetary and fiscal policies.

302 PROBLEMS IN THE WORLD ECONOMY 2-3 S.Summer
ECO 100, 101 req; ECO 240 or 241 rec.

Application of economic theories to contemporary world problems. Practice in economic analysis using relevant data.

306 REGIONAL AND AREA STUDIES 1-9

An intensive study of particular lands, environments, cultures and peoples. May be given in cooperation with other departments on or off campus. The areas to be studied, participating departments, and credit hours available in the several departments will be announced each time the course is offered.

310 SOVIET ECONOMY 3 F
ECO 101 req. Formerly ECO 410.

Economic growth of the Soviet Union. NEP and economic planning. Examination of particular sectors of the Soviet economy. Pricing, decentralization, and economic reform.

320 INDUSTRIAL ORGANIZATION AND PRICES 3 S
ECO 101.

Theoretical and empirical analysis of basic influences on industrial markets and performances. Market practices, the role of competition, and related policy issues.

326 ECONOMICS OF HUMAN RESOURCES 3 F
ECO 100, 101 req. ECO 225, 240 rec.

Theoretical and empirical analysis of labor markets. Education and training, labor mobility, wage structure, discrimination, unemployment, wage and incomes policies.

328 DEMOGRAPHIC ECONOMICS 3
ECO 100, 101. Formerly ECO 310.

Theoretical and empirical study of the economics of population changes, distributions, and characteristics. Population dynamics, policy issues, and economic consequences.

329 ECONOMIC ISSUES IN EDUCATION 3 S
ECO 101 req.

Analysis of economic issues in education including efficiency and equity, public vs. private provision of educational services, and education as human capital.

330 MATHEMATICAL ECONOMICS 3 F.S
ECO 100, 101 and coursework in differential and integral calculus.

Integral calculus, difference equations, differential equations and linear algebra in relation to economic theory.

331 INTERMEDIATE ECONOMIC STATISTICS 3 F
ECO 131 and coursework in differential and integral calculus.

Intermediate level probability and sampling theory. Hypothesis testing. Estimation. Basic econometric principles. Use of common regression packages such as ESP.

333 OPERATIONS RESEARCH 3 S
ECO 131 and coursework in differential and integral calculus.

Quantitative techniques for economic analysis and decision making. Includes linear programming, input-output analysis, game theory, queuing theory, and probabilistic models, with emphasis on applications to theory of the firm.

335 ECONOMICS OF TRANSPORTATION AND PUBLIC UTILITIES 3
ECO 100, 101.

An analysis of contemporary issues in transportation and public utilities, with emphasis on the impact of regulation.

345 INTERNATIONAL ECONOMICS 3 F.S
ECO 100, 101 req. ECO 240 rec.

Basic aspects of the international economy as the reasons for trade, the terms of trade, and the adjustments necessary to achieve the highest possible plane of living, as well as balance of payments and exchange theory. Contemporary applications such as exchange crises, trade barriers, and the links between trade and development.

350 PUBLIC FINANCE 3 F
ECO 101 req. ECO 240 rec.

Economic role of government in the economy. Analysis of the economic impacts of government expenditures and taxes on the allocation of resources, the distribution of income, employment, prices and economic growth.

351 STATE AND LOCAL FINANCE 3 S
ECO 101 req. ECO 240 rec.

Economic impacts of state and local tax and expenditure

programs, intergovernmental fiscal relations and problems of metropolitan areas.

355 ENVIRONMENTAL ECONOMICS 3 S
ECO 100, 101 req. ECO 131, 240 rec.

Theoretical and empirical analysis of environmental pollution generation and of corrective policies. Emphasis upon the resource allocation implications of public policy decisions.

357 URBAN AND REGIONAL ECONOMICS 3 F
ECO 100, 101 req. ECO 240 rec.

A theoretical and empirical analysis of cities and regions. Pricing and efficiency aspects of urban policies and problems.

360 DEVELOPMENT OF THE AMERICAN ECONOMY 3 S
ECO 100, 101. Formerly QUANTITATIVE ECONOMIC HISTORY.

Recent empirical studies and applications of economic theory to historical problems in an American context. Causes of the Great Depression, economics of slavery, and roles of agriculture, industry, and government in growth.

372 HISTORY OF ECONOMIC THOUGHT 3 S
ECO 100, 101.

A study of economic analysis from the Mercantilists to the American Institutionalists. Relates earlier schools of thought to the contemporary.

398 PROFESSIONAL PRACTICE: INTERNSHIP IN ECONOMIC RESEARCH 3-6 F.S

ECO 130, 131, 240, 241 or equiv and cons Dir of Center for Econ Ed req. Not for credit maj min.

On the job experience as a practicing economist in private industry or government. Interns may be involved in all phases and types of economic research.

ENGLISH (ENG)

409 Stevenson Hall

Chairperson: Charles B. Harris.

Faculty: Professors: Bishop, Crowell, Erickson, C. Harris, Kagle, Linneman, McMahan, Morgan, Ranta, Sutherland, Tarr, R. White, Woodson. Associate Professors: Allen, I. Brosnahan, L. Brosnahan, Carr, Dammers, Duncan, Grever, V. Harris, Hutton, Neely, Neuleib, Newby, Olivier, Renner, Richardson, Rutter, Wilcox. Assistant Professors: Albert, Bails, Barron, Butts, Clement, Cox, Diamond, Dunn, Eatherly, Fielding, Fortune, Johnston, Kopley, Mainville, Nietzke, Parmantie, Rice, Rogal, Scharton, Shields, Solheim, Walker, C. White. Instructors: Austin, Barber, Coffin, Day, Mink, Pomerencke, Straub.

English Programs

Degrees Offered: B.A., B.S.

COMPREHENSIVE ENGLISH EDUCATION MAJOR

- 54 hours in English required, exclusive of ENG 101. Part of entitlement program leading to certification: secondary 6-12.
- Required courses: ENG 102, 103, 222 or 223, 241, 243, 246, 296, 297, 375.

- 27 hours of electives selected from the following three areas:

Area 1 (12 hours) — English Literature: ENG 214, 215, 216, 217, 218, 219, 222 or 223, 320, 324, 325, 327, 328, 329, 386, 387, 388.

Area 2 (12 hours) — American Literature, World Literature, and Genre: ENG 150, 231, 232, 233, 234, 236, 250, 251, 252, 255, 284, 285, 286, 308, 328, 332, 336, 352, 360, 382.

Area 3 (3 hours) — Language and Children's Literature: ENG 244, 245, 247, 249, 272, 290, 310, 311, 341, 347, 348, 349, 370, 372, 392, 395, 396; or Journalism: COM 165, 265, 268, 269.

Students must elect at least one 300-level course in addition to 375 and may take no more than three 300-level courses, except with consent of the department chairperson. ENG 189, 289, and 389 may be substituted where applicable.

MAJOR IN ENGLISH

- 36 hours in English required, exclusive of ENG 101 and courses in the teaching of English (290, 291, 296, 297, 370, 372, 373, 375, 395).

— Required Courses: ENG 102, 103.

- Suggested program, but not required (student may depart from suggested program by filing a plan of study for approval of the chairperson of the department or designated representative):

12 hours of British Literature, including two courses from each of the following areas:

To 1660 — ENG 214, 215, 222, 223, 320, 325.

After 1660 — ENG 216, 217, 218, 219, 320, 324, 325, 327, 329, 386, 387, 388.

6 hours of American Literature, including one course from each of the following areas:

To 1870 — ENG 231, 232, 332 or 336 when appropriate.

After 1870 — ENG 233, 234, 236, 332 or 336 when appropriate.

12 hours of electives from any of the above courses or from ENG 145, 150, 160, 165, 170, 241, 243, 244, 245, 246, 247, 249, 250, 251, 252, 255, 271, 272, 284, 285, 286, 299, 308, 310, 311, 328, 341, 347, 348, 349, 352, 360, 373, 382, 392, 396. ENG 189, 289, 295, and 389 may be substituted where applicable.

MAJOR IN ENGLISH EDUCATION

- 42 hours in English required, exclusive of ENG 101. Part of entitlement program leading to certification: secondary 6-12.

- Required courses for certification and accreditation: ENG 246; 3 hours in grammar, ENG 243; one course in language selected from ENG 241, 245, 310, 311, 341; ENG 296 and 297 (these courses include 35 clock hours of state mandated pre-student teaching clinical experiences).

— Additional required courses:

ENG 102 and 103.

9 hours of British literature courses selected from ENG 110, 214, 215, 216, 217, 218, 219, 222, 223, 311, 320, 324, 325, 327, 328, 329, 386, 387, 388. One course before 1800 and one course after 1800 is required. ENG 110 is strongly recommended for students who have not taken a high school or community college survey course in British literature.

6 hours of American literature courses selected from ENG 130, 231, 232, 233, 234, 236, 328, 332, 336. One course before 1870 and one course after 1870 is required. ENG 130 may be counted either before or after 1870. ENG 130 is strongly recommended for students who have not taken a high school or

community college survey course in American literature.

6 hours of electives selected from at least two of the following groups:

World Literature: ENG 150, 250, 251, 252, 255, 352. ENG 150 is strongly recommended for students who have not taken a high school or community college survey course in ancient literature.

Literature for Children and Adolescents: ENG 170, 272, 370, 372, 375.

Special Focus literature (Minority, Women's, Genre): ENG 160, 165, 284, 285, 286, 308, 360, 382.

General electives: ENG 145, 244, 247, 249, 290, 291, 344, 347, 348, 349, 374, 392, 395, 396.

ENG 189, 287, 289, and 389 may substitute where applicable.

MINOR IN ENGLISH

— 18 hours in English required, exclusive of ENG 101 and courses in the teaching of English (290, 291, 296, 297, 370, 372, 373, 375, 395).

— Required courses: ENG 102, 103; at least 6 hours of 200-300 level courses, exclusive of the courses in teaching of English listed above.

MINOR IN ENGLISH EDUCATION

— 24 hours in English required, exclusive of ENG 101.

— Required Courses: ENG 102, 103; 3 hours in composition selected from ENG 246, 291, 297; 3 hours in grammar, ENG 243; at least 6 additional hours of 200-300 level courses.

MINOR IN TEACHING ENGLISH TO SPEAKERS OF OTHER LANGUAGES (TESOL)

Students enrolling in this program must (1) have at least two years of a foreign language or equivalent at the college level in the case of a native speaker of English, or demonstrated proficiency in English at a level commensurate with the student's role as a language model in the case of a non-native speaker of English, and (2) fulfill teacher education certification requirements at the appropriate level.

— 18 hours required.

— Required courses: ENG 243, 341, and 344; 9 hours selected from ENG 241, 244, 290, 297, 398 (Professional Practice, when it has a TESOL component), COM 370, and SAS 289 (Language and Culture).

MINOR IN WRITING

Courses taken for the Writing Minor may not count for the English Major.

— 24 hours required, including 15 hours of required courses and 9 hours elected from listed writing courses.

— Required courses (15 hours): ENG 145, 246, and 396; also 6 hours selected from ENG 244, 247, 249, 392.

— Electives (9 hours) selected from ENG 244, 247, 249, 349, and 392 to the extent these courses have not been used to meet the 6 hour requirement above; ENG 289 (Research Writing), 290, 291, 297, 347.01 (Advanced Creative Writing: Prose), 347.02 (Advanced Creative Writing: Poetry), 348, 349, 398 (Professional Practice, when it has a significant writing component); COM 166, 267, 268, and 385; BSC 304. No more than two courses from departments other than English may be used to fulfill the 9 hour elective requirement.

Students Planning Graduate Study in English: Students who plan graduate study in English may find it

advisable to take at least one year of foreign language, preferably French or German. Such students may also find it advisable to take a sequence of courses leading to a concentration in literature of England or America, Children's Literature, World Literature, or professional studies in English. An appropriate program may be planned in consultation with the chairperson of the Department of English.

English Courses

The courses offered by the Department of English fall into three categories: those for University Studies, those for major and minor fields, and those for specialized aspects in English. English 101 is required of all students for University Studies, and it is strongly recommended that students take 101 before taking further courses in English.

101 LANGUAGE AND COMPOSITION I 3 US-1 F.S

Passage of placement exam req. Does not count toward a first or second field in English. May not be taken under the Credit/No Credit option.

Essentials of college composition: organization, paragraph and sentence structure, proficient use of grammar and mechanics.

102 LITERARY ANALYSIS I: PROSE FICTION 3 F.S

Maj min only. Not for credit if had ENG 105.

To provide competence in critical reading, knowledge of formal characteristics of novels and short stories, including their development as genres.

103 LITERARY ANALYSIS II: POETRY AND DRAMA 3 F.S

Maj min only. Not for credit if had ENG 104.

To provide competence in critical reading, knowledge of formal characteristics of various types of poetry and drama, including their development as genres.

104 INTRODUCTION TO LITERATURE — POETRY AND DRAMA 3 US-2 F.S

Not for credit maj min or if had ENG 103.

Critical and analytical study of the chief literary forms of poetry and drama; written essays.

105 INTRODUCTION TO LITERATURE — PROSE FICTION 3 US-2 F.S

Not for credit maj min or if had ENG 102.

Critical and analytical study of the chief literary forms of the short story and novel; written essays.

106 INTRODUCTION TO LITERATURE — LITERARY THEMES AND TOPICS 3 US-2 F.S

Not for credit maj min. May be repeated once if topic and content are different.

A critical and analytical study of literary works based on a particular theme or topic; written essays.

107 LITERATURE AND FILM 3 US-2 S

Not for credit maj min. Formerly LITERATURE AND THE MOVIES.

A critical and analytical study of literary works and the films adapted from them with attention to the characteristics of each medium; written essays.

110 MASTERPIECES OF ENGLISH LITERATURE 3 US-2 F.S

A chronological study of the main movements in English literature. Readings of entire works representative of the movements.

122 INTRODUCTION TO SHAKESPEARE 3 US-2

Not for credit maj min.

An introduction to Shakespeare as a literary and dramatic writer, through a study of representative plays.

130 MASTERPIECES OF AMERICAN LITERATURE 3 US-2

F.S

A chronological study of the main movements in American literature. Readings of entire works representative of the movements.

145 LANGUAGE AND COMPOSITION II 3 US-1

ENG 101.

Extensive writing based on interests of students. One research paper.

150 MASTERPIECES OF WORLD LITERATURE: TO 1350 3 US-2

F.S

Formerly ANCIENT LITERATURE.

Readings in ancient and medieval literature, including Dante.

160 WOMEN IN LITERATURE 3 US-2

F.S

A study of the female experience in imaginative literature — short stories, novels, poetry, and drama — with emphasis on women writers of the 20th century.

165 BLACK AMERICAN LITERATURE 3 US-2

Formerly AFRO-AMERICAN LITERATURE.

A study of the contributions to American literature by representative Black authors, with emphasis on the 20th century.

170 LITERATURE FOR THE ELEMENTARY SCHOOL 3

F.S

Also offered as COM 170.

Prose and poetry for kindergarten through eighth grade; emphasis on classics, best of the 20th century works, folklore heritage, and mythology.

214 LITERATURE OF THE RENAISSANCE 3

F

English literature during the 15th and 16th centuries; the dramatic literature exclusive of Shakespeare, prose and poetic writings.

215 LITERATURE OF THE SEVENTEENTH CENTURY 3

S

Prose and verse writers of the 17th century. Chief attention to the Cavalier and Metaphysical poets and major prose works.

216 LITERATURE OF THE EIGHTEENTH CENTURY 3

F

English literature from 1660 to 1780, the Augustan Age. Chief attention to Dryden, Pope, Swift, and Johnson.

217 LITERATURE OF THE ROMANTIC PERIOD 3

F

Writers of England, 1780 to 1830 — the Romantic reaction. Chief attention to Wordsworth, Coleridge, Byron, Shelley, Keats, and Scott.

218 LITERATURE OF THE VICTORIAN PERIOD 3

S

Emphasis on the poetry of Tennyson, Browning, Arnold, and the Pre-Raphaelites, with some attention to the chief prose writers of the period.

219 CONTEMPORARY ENGLISH LITERATURE 3

F.S

Major English writers of the 20th century with attention to contemporary trends in thought and expression.

222 SHAKESPEARE'S EARLIER WORKS 3

F.S

Selected works through 1600 with emphasis on comedies and histories.

223 SHAKESPEARE'S LATER WORKS 3

F.S

Selected plays after 1600 with emphasis on tragedies.

231 AMERICAN LITERATURE: 1607 TO 1830 3

F.S

Colonial American writers and Neo-Classicism in America from the beginnings of American literature to Washington Irving.

232 AMERICAN LITERATURE: 1830 TO 1870 3

F.S

The main figures and movements of mid-19th century American literature. Emphasis on Hawthorne, Melville, Poe, Emerson, and Whitman.

233 AMERICAN LITERATURE: 1870 TO 1920 3

F.S

The rise of realism and naturalism in America. Emphasis on Twain, Crane, Norris, James, Howells, Dreiser, and the chief poetic movements.

234 AMERICAN LITERATURE: 1920 TO 1945 3

F.S

Trends in American literature between the World Wars. Emphasis on Eliot, Hemingway, Faulkner, and their contemporaries.

236 AMERICAN LITERATURE: 1945 TO THE PRESENT 3

F.S

Present-day trends in American literature.

241 GROWTH AND STRUCTURE OF THE ENGLISH LANGUAGE 3

F.S

An introduction to the history of English designed to help students understand language change and the state of contemporary English.

243 TRADITIONAL AND NON-TRADITIONAL GRAMMARS 3

F.S

Study of the various grammatical descriptions of English: traditional, structural, and transformational-generative systems.

244 APPLIED GRAMMAR AND USAGE FOR WRITERS 3

F

ENG 145 or both ENG 102 and 103.

Traditional, structural, and transformational grammars applied to needs of writers. Choosing among alternative grammatical strategies. Usage; semantics of punctuation. Revising.

245 GENERAL SEMANTICS 3

F.S

The nature of meaning and the functions of language.

246 ADVANCED EXPOSITION 3

F.S

ENG 145 or both ENG 102 and 103.

Extensive writing of essays developed in greater depth and sophistication in subject matter than those written in previous writing courses.

247 CREATIVE WRITING 3

F.S

Opportunity for creative writing of various kinds, such as narrative, drama and verse, determined largely by each student's individual interest.

249 TECHNICAL WRITING I 3

F.S

ENG 101 req.

Instruction and practice in writing professional papers and reports; attention given to organization, correctness, and acquisition of clear professional style.

250 LITERATURE OF THE BIBLE I 3 US-2 F

Major ideas and literary forms of the Old Testament.

251 LITERATURE OF THE BIBLE II 3 US-2 S

Major ideas and literary forms of the Apocrypha and the New Testament.

252 COMPARATIVE LITERATURE: 1350-1800 3 F

Formerly EUROPEAN LITERATURE TO 1700.

European literature from the Renaissance through Early Romanticism. A comparative study of literary history, ideas, themes and genres.

255 COMPARATIVE LITERATURE: 1800-PRESENT 3 S

Formerly MODERN WORLD LITERATURE I.

World literature from Later Romanticism through Modernism. A comparative study of literature history, ideas, themes and genres.

271 LITERATURE FOR LOWER GRADES 3 S

Also offered as COM 271. Does not repeat material of COM 170 or ENG 170.

Wide reading in variety of books available for kindergarten and primary grades, criteria for book selection, development of literature programs.

272 LITERATURE FOR UPPER GRADES 3 F

Also offered as COM 272. Does not repeat material of COM 170 or ENG 170.

Wide reading in variety of books available for grades four through eight, criteria for book selection, development of literature programs.

284 THE POEM 3

Offered every third semester.

Study of poetics, poetic theory, explication techniques, and of various schools of poetic thought. In translation when necessary.

285 THE DRAMA 3

Offered every third semester.

Major plays representing significant developments in the theater with attention to leading theories of dramatic criticism.

286 THE NOVEL 3

Offered every third semester.

The novel in English with emphasis on the 19th and 20th centuries.

290 LANGUAGE ARTS FOR THE ELEMENTARY SCHOOL 3

Guidance in devising experiences in thinking, listening, speaking, writing; ways of improving vocabularies, usage, spelling, mechanics, introduction to linguistics.

295 SEMINAR 3

Formerly ENG 298.

Intensive study of a genre, topic, group of authors, or single major writer in English or American Literature.

296 LITERATURE IN THE SECONDARY SCHOOL 3 S

Ordinarily offered third nine week sessions only. C&I 200 (6 hrs) or 200.03 (grade of C or better req.) or 215 (2 hrs) or conc reg. Incl Clin Exp.

The teaching of literature for use in the junior and senior high school.

297 LANGUAGE AND COMPOSITION IN THE SECONDARY SCHOOL 3 S

Ordinarily offered third nine week sessions only. C&I 200 (6 hrs) or 200.03 (grade of C or better req.) or 215 (2 hrs) or conc reg. Incl Clin Exp.

The teaching of oral and written composition in the junior and senior high school.

299 INDEPENDENT HONOR STUDY 1-6 F, S

Cons inst, dept chair and dir of Honors.

Intensive work in a special area of the student's major or minor. Each individual project is to culminate in a comprehensive written report and/or examination. Open only to resident students who have achieved superior academic records and who have demonstrated ability to profit from independent study.

308 LITERATURE AND THE RELATED ARTS 3

Study of formal, aesthetic, and cultural relationships among literature, art, and music with special emphasis upon literary understanding.

310 HISTORY AND DEVELOPMENT OF THE ENGLISH LANGUAGE 3

Development of the English language from the Old English period to the present, with attention to operational structures of contemporary English.

311 INTRODUCTION TO OLD ENGLISH LANGUAGE AND LITERATURE 3

The elements of Old English grammar, with selected readings in Old English literature.

320 CHAUCER 3

Literary and linguistic study of the major works of Chaucer; text in Middle English.

324 MILTON 3

Major poetry and prose of John Milton; special attention to *Paradise Lost*.

325 ENGLISH DRAMA BEFORE 1642 3

English drama, excluding Shakespeare, from its beginning to the closing of the theaters; authors such as Marlowe, Jonson, Webster.

327 RESTORATION AND EIGHTEENTH-CENTURY DRAMA 3

English drama from 1660 to 1800, including playwrights such as Dryden, Wycherley, Congreve, Goldsmith, and Sheridan.

328 MODERN BRITISH AND AMERICAN DRAMA 3

20th-century British and American drama and related criticism; playwrights such as Shaw, O'Neill, Williams, Albee, Pinter, and Beckett.

329 SELECTED FIGURES IN BRITISH LITERATURE 3

May be repeated if content different.

Involves the study of important literary figures, types, themes, or movements.

332 SELECTED FIGURES IN AMERICAN LITERATURE 3

May be repeated if content different.

Study of important literary figures, genres, or movements.

336 THE AMERICAN NOVEL 3

Historical survey of major American novelists, including

authors such as Twain, Hawthorne, Melville, Crane, Hemingway, Faulkner, and Barth.

341 INTRODUCTION TO DESCRIPTIVE LINGUISTICS 3

Aims and methods of linguistic science. Nature and functions of language: phonology, morphology, syntax, dialectology. Relationship of language to culture.

344 TEACHING ENGLISH TO SPEAKERS OF OTHER LANGUAGES 3 S

ENG 243 or 341.

Theory and method in teaching English to speakers of other languages: psychological, linguistic, and cultural foundations; teaching techniques and procedures.

347 ADVANCED CREATIVE WRITING 3 F.S

ENG 247. Poetry writing offered in F. Prose writing offered in S. May be repeated if content different.

Workshop format for individual projects, usually the writing of a series of poems or group of short stories.

348 PLAYWRITING 3 S

Also offered as THE 348.

Playwriting techniques of selected masters with practical application of techniques in writing original plays.

349 TECHNICAL WRITING II 3 F.S

ENG 249 or graduate standing. Also offered as IT 349. Formerly TECHNICAL WRITING.

Instruction and practice in editing, proposals, and analytical writing; attention given to style manuals, research-writing, and (as needed) publication.

352 SELECTED FIGURES IN WORLD LITERATURE 3

May be repeated if content different.

Involves the study of important literary figures, types, themes, or movements.

360 STUDIES IN WOMEN AND LITERATURE 3

Studies in literature by or about women, focusing on stereotyping of male and female experience and developing feminist aesthetic theories.

370 STUDIES IN THE HISTORY OF LITERATURE FOR YOUNG PEOPLE 3

ENG 170 rec. May be repeated if content different.

Advanced critical, chronological examination of literature for children and adolescents from folklore origins to 1900.

372 STUDIES IN CONTEMPORARY LITERATURE FOR YOUNG PEOPLE 3

ENG 170 rec. May be repeated if content different.

A problem-centered course, emphasizing trends and research related to recent literature for children and early adolescents.

373 VERSE FOR CHILDREN 3

ENG 170 and either 271 or 272 rec.

Verse for use in kindergarten through grade eight, including various categories, elements, and well-known poets in the field.

374 STORYTELLING 3

Also offered as COM 374.

The art of storytelling based on knowledge of folklore heritage with experiences in oral transmission of literature in library or classroom setting.

375 STUDIES IN LITERATURE FOR ADOLESCENTS 3

May be repeated if content different.

Advanced critical examination of literature for grades seven through twelve with emphasis on trends and research.

378 SHAKESPEARE ON STAGE 3 Summer

May be repeated once. Also offered as THE 378.

An intensive study of Shakespeare's plays in production. For the student with adequate familiarity with Shakespeare and his works.

382 LITERARY CRITICISM 3

Historical survey of selected great texts in literary and critical theory from Plato to the present.

386 THE EIGHTEENTH-CENTURY ENGLISH NOVEL 3

The English novel from its origins through the 18th century, including writers such as Richardson, Fielding, Smollett, and Sterne.

387 THE NINETEENTH-CENTURY ENGLISH NOVEL 3

The English novel between 1800 and 1900, treating writers such as Austen, Thackeray, Dickens, Eliot, and Hardy.

388 THE TWENTIETH-CENTURY ENGLISH NOVEL 3

The English novel since 1900, treating writers such as Bennett, Lawrence, Woolf, Joyce, and Greene.

390 RECENT RESEARCH IN THE TEACHING OF LANGUAGE ARTS 3

ENG 290 or equiv req.

Critical study of current practice and research in the teaching of language arts in the elementary school.

392 MODERN THEORIES OF RHETORIC 3

Study of the principles of rhetoric to serve as basis for understanding contemporary rhetorical theories.

395 PROBLEMS IN THE TEACHING OF ENGLISH 3

Experience in teaching (student teaching acceptable) or ENG 296 or ENG 297.

Examination of theory and practice in the teaching of language, literature, and composition at the secondary and community college levels.

396 THE WRITING SEMINAR 3

Concentration upon a major writing project and the formulation of an individual Writing Portfolio.

398 PROFESSIONAL PRACTICE: INTERNSHIP AND FIELD EXPERIENCE IN ENGLISH 1-6 F.S

Cons inst and dept chair req. May be repeated. Max 6 hrs.

Supervised internship and field experience in English with local, state, national, and international businesses, agencies, institutions (including colleges and universities), and organizations.

FOREIGN LANGUAGES (FOR)

412 Stevenson Hall

Chairperson: Louis A. Olivier.

Faculty: Professors: Comfort, Laurenti, Olivier, Parent D., Tarrant, Whitcomb. Associate Professors: Foreman, Fritzen, Fuehrer, Hutter, Petrossian. Assistant Professors: Alstrum, Bohn, Martinez, McCarthy, Pfabel, Pontillo, Urey. Instructors: O'Connell, Parent A.

Students seeking a Teacher Education degree must complete University-Wide Teacher Education Program Requirements. All Teacher Education majors and minors in Foreign Languages must complete FOR 320. Teacher Education majors must also complete FOR 321. FOR 320 is normally taken in the Fall and FOR 321 in the Spring of the Junior year. Professional Education requirements should be met beginning in the Sophomore year.

French Programs

Degrees Offered: B.A., B.S.

MAJOR IN FRENCH

- 33 hours in French required.
- Required courses: French 111, 112, 115, 116, 221, 222, 231.

MAJOR IN FRENCH EDUCATION

- 37 hours in French required. Part of entitlement program leading to certification: secondary 6-12.
- Required courses: French 115, 116, 211, 217, 231, 309, 310, FOR 320, FOR 321, and one of the following: French 221, 222, 223.
- French 111, 112, 113, 114 are not applicable, but 111 and 112 or the equivalent knowledge are prerequisites for required courses.

MINOR IN FRENCH

- 25 hours in French required.
- Required courses: French 111, 112, 115, 116, 231.

MINOR IN FRENCH EDUCATION

- 25 hours in French required.
- Required courses: French 115, 116, 231, 309.
- Students not majoring in FOR Ed. are required to take FOR 320.
- Recommended electives: French 211, 217, 221, 222, 223, 310 and FOR 321.
- 111, 112, 113 and 114 are not applicable but 111 and 112 or the equivalent knowledge are prerequisites for required courses.

German Programs

Degree Offered: B.A.

MAJOR IN GERMAN

- 33 hours in German required.
- Required courses: German 111, 112, 115, 116, 213, 217 or 221, 222.

MAJOR IN GERMAN EDUCATION

- 37 hours in German required. Part of entitlement program leading to certification: secondary 6-12.
- Required courses: German 115, 116, 211, 213, 214, 217, 218, 309; FOR 320, 321.
- Recommended electives: German 216, 222, 223.
- German 111, 112, 113 are not applicable, but 111 and 112 or the equivalent knowledge are prerequisites for required courses.

MINOR IN GERMAN

- 25 hours in German required.
- Required courses: German 111, 112, 115, 116, 213.

MINOR IN GERMAN EDUCATION

- 25 hours in German required.
- Required courses: German 115, 116, 213, 217 or 218, 214.
- Students not majoring in FOR Ed. are required to take FOR 320.
- Recommended electives: German 216, 222, 223, 309; FOR 321.
- German 111, 112, 113 are not applicable but 111 and 112 or the equivalent knowledge are prerequisites for required courses.

Russian Programs

Degree Offered: B.A.

MAJOR IN RUSSIAN STUDIES

- 33 hours required.
- Required courses: Russian 111, 112, 115, 116.
- Electives selected from ECO 210, 310; GEO 245; HIS 233, 234, 366; POS 242, 263, 354; and any additional Russian courses. Courses must be selected from at least three departments.

MINOR IN RUSSIAN

- 25 hours in Russian required.
- Required courses: Russian 111, 112, 115, 116, 231.

MINOR IN RUSSIAN EDUCATION

- Program requirements are the same as those for the Minor in Russian.
- Students not majoring in FOR Education are required to take FOR 320.

Spanish Programs

Degrees Offered: B.A., B.S.

MAJOR IN SPANISH

- 33 hours in Spanish required.
- Required courses: Spanish 115, 116, 221, 222, 231, 242, 310 plus 10 elective hours, two courses of which must be taken at the 300 level or above.

MAJOR IN SPANISH EDUCATION

- 37 hours in Spanish required. Part of entitlement program leading to certification: secondary 6-12.
- Required courses: Spanish 115, 116, 217, 218 or 304, 231, 309, 310; FOR 320, 321.
- Recommended electives: Spanish 221, 222 or 242.
- Spanish 111, 112, 114 are not applicable but 111 and 112 or the equivalent knowledge are prerequisites for required courses.

MINOR IN SPANISH

- 25 hours in Spanish required.
- Required courses: Spanish 111, 112, 115, 116, 231, and one literature course at the 200 level or above.

MINOR IN SPANISH EDUCATION

- 25 hours in Spanish required.
- Required courses: Spanish 115, 116, 231, 309, 310.
- Students not majoring in FOR Ed. are required to take FOR 320.
- Recommended electives: Spanish 217, 218, or 305; FOR 321.
- Spanish 111, 112, 114 are not applicable but 111 and 112 or the equivalent knowledge are prerequisites for required courses.

Honors in Foreign Languages: The Department invites highly qualified majors (or double majors) to distinguish themselves by earning Honors in French, Spanish, or German. To be admitted to the program a student must: 1. have completed 60 hours of university level work; 2. be a declared major or double major in Foreign Languages; and 3. have a minimum overall GPA of 3.3 with a GPA of 3.6 in the chosen language. In order to graduate with Departmental Honors a student must: 1. complete the general requirements for the major; 2. maintain an overall GPA of 3.3 and a GPA of 3.6 in the major language; 3. complete 9 hours of in-course honors work at the 300 level in the major; 4. complete 3 hours of Independent Honors Study (FOR 299) in addition to the regular major requirements; and 4. write an honors thesis during the Senior year while enrolled in FOR 299. Students interested in participating may obtain additional information from the Director of the Honors Program in Foreign Languages. The department also offers in-course honors work for students enrolled in the University Honors program at the discretion of the instructor.

Foreign Language Courses

Students who have had no previous instruction in a foreign language, or one year of instruction, should enroll in the 111 course for the appropriate language. Students who have had two, three or four years may enroll in 112, 115 or 116 respectively. If prior language study took place more than one year earlier, a student may choose to enroll at a lower level. Transfer students and native speakers should consult with the chairperson of the Department of Foreign Languages to determine proper placement.

Advanced Placement: If the first foreign language course in which a student enrolls is above 111 in the regular sequence (112, 115, 116 or above), he or she may be eligible for advanced placement credit. Application for advanced placement credit must occur during the first semester a student is enrolled in a language course.

Credit toward graduation for previously acquired language proficiency will be granted upon completion at Illinois State University of 8 hours of course work (excluding Independent Study) with the grade of C or better in each class. None of the required hours may be taken under the credit/no credit option. Transfer students who took language courses at another college are not eligible for this advanced placement credit. Unless advance approval for exceptions is given by the chair, the courses should be taken consecutively or concurrently.

Students beginning at the 112 level and fulfilling the above requirements will be granted 4 hours. Students beginning at the 115 level or above and fulfilling the above requirements will be granted 8 hours of credit.

General Courses**300 RESEARCH IN FOREIGN LANGUAGES 1-3**

Cons. dept. chair.

F,S

Supervised work in a foreign literature, in comparative language studies, or in educational materials for foreign language laboratory. Assignments will depend on the preparation and interest of the student.

320 FOREIGN LANGUAGE TEACHING**IN THE SECONDARY SCHOOL 3 F**

C&I 200(6 hours) or 200.03 (grade of C or better) or 215 (2 hours) or conc reg. Incl Clin Exp. Formerly FOR 204.

Methods of teaching foreign languages in the secondary school. Special emphasis is given to audio-lingual techniques.

321 MEDIA MATERIALS AND USE**IN THE TEACHING OF FOREIGN LANGUAGES 2 S**

FOR 320 req. COM 240 rec. C&I 200 (6 hours) or 200.03 (grade of C or better) or 215 (2 hours) or conc reg. Incl Clin Exp.

Supplementing the basic methodology of Foreign Language teaching with media materials and the techniques for their use in the language classroom.

Classics Courses**101 GREEK AND LATIN FOR VOCABULARY BUILDING 3**

Taught in English. Not for credit maj min.

The history of the Latin and Greek elements in English, study of the roots, prefixes, and suffixes derived from Latin and Greek to enable the student to increase the active and passive vocabulary and to determine the meanings of new words. Some treatment of the subject of semantics as it applies to the Latin and Greek elements in English. A consideration of the technical vocabulary of the sciences according to the interests of the class.

105 CLASSICAL**MYTHOLOGY 3 US-2 F.S**

Taught in English. Not for credit maj min.

The major myths; their nature, origins, interpretations, influence, relevance, and use in the modern world. Designed to enable the student to understand and appreciate the use of classical mythology in literature, art, and music.

Greek Courses**111 FIRST-YEAR CLASSICAL GREEK (PART I) 4 US-1**

The Greek alphabet, pronunciation, essentials of grammar, translation of reading material of graded difficulty, exercises in writing Classical Greek, consideration of the Greek element in English.

112 FIRST-YEAR CLASSICAL GREEK (PART II) 4 US-1

Continuation of Part I.

Latin Courses**111 FIRST-YEAR LATIN (PART I) 4 US-1**

Pronunciation; essentials of grammar; reading graded material; exercises in writing easy Latin; consideration of the Latin element in English.

112 FIRST-YEAR LATIN (PART II) 4 US-1

Continuation of Part I.

115 INTERMEDIATE LATIN 4 US-1

LAT 112, or HS LAT equivalency or cons dept chair.
Review of Latin fundamentals. Practice in writing simple

Latin. Reading beginning with graded Latin selections and progressing to selections from Cicero's orations.

116 VERGIL 4 US-1

LAT 115 or three yrs HS LAT.

Aeneid, Books I-VI: The purpose, sources, merits and fame of the Aeneid, and its references to other classic epics; poetical syntax, figures of speech, prosody, and mythology in the Aeneid.

French Courses

111 FIRST-YEAR FRENCH

(PART I) 4 US-1

F.S

Not rec if student had three yrs of HS FR. Not for credit if had FR 115 or 116.

Pronunciation; essentials of grammar; exercises in hearing, speaking and writing French; reading material of graded difficulty.

112 FIRST-YEAR FRENCH

(PART II) 4 US-1

F.S

Not for credit if had FR 115 or 116.

Continuation of Part I.

113 FRENCH CONVERSATIONAL

PRACTICE 2

FR 112 or cons dept chair. Not for credit for FR 200 level students.

Intermediate level conversational practice. Exercises to improve diction, pronunciation, intonation and comprehension.

114 FRENCH COMPOSITION

PRACTICE 2

FR 112 or cons dept chair. Not for credit for FR 200 level students.

Intermediate level composition practice, including translation and grammar exercises.

115 SECOND-YEAR FRENCH

(PART I) 4 US-1

F.S

FR 112 or HS FR equivalency.

Class reading of short stories, plays, and essays. Grammar review, oral and written composition.

116 SECOND-YEAR FRENCH

(PART II) 4 US-1

F.S

Continuation of Part I.

211 MODERN FRENCH

NOVEL 3

FR 116.

Vocabulary building through the reading and discussion of representative French novels.

216 MODERN FRENCH

DRAMA 3

FR 116.

Reading and discussion of the drama of the 19th and 20th centuries.

217 FRENCH CIVILIZATION

3

FR 116.

French people and institutions as background for the French teacher and student of French literature.

221 SURVEY OF FRENCH

LITERATURE I 3 US-2

FR 116.

French literature from the Middle Ages to the 17th century.

222 SURVEY OF FRENCH

LITERATURE II 3 US-2

FR 116.

French literature of the 18th and 19th centuries.

223 SURVEY OF FRENCH LITERATURE III 3 US-2

FR 116.

French literature of the 20th century.

231 ADVANCED FRENCH COMPOSITION AND CONVERSATION 2

FR 116.

Reading of short excerpts from modern writers; written and oral composition; dictation and memorizing of short passages.

301 FRENCH ROMANTICISM 3

Reading of poetry, novels, plays, and criticism from the Romantic period.

302 FRENCH CLASSICISM 3

Reading of plays by Corneille, Racine and Moliere, and selections from other 17th century writers.

309 FRENCH PHONETICS 2

A scientific approach to French pronunciation. Correct formation of French sounds, practical application of the theory of phonetics.

310 FRENCH SYNTAX 3

FR. 116.

Systematic study of the morphology and syntax of the modern French language.

316 FRENCH LITERATURE OF THE SIXTEENTH CENTURY 3

Analysis of the Renaissance as expressed in the leading writers of France in the 16th century.

322 FRENCH LITERATURE OF THE MIDDLE AGES 3

A study of medieval French literature in modern French translation.

332 FRENCH LYRIC POETRY 2

Reading of French lyrics from the 16th century to the present; study of the schools of poetry; explication de texte. Oral reading.

385 SELECTED TOPICS IN FRENCH LITERATURE 3

May be repeated if content different.

Intensive study of a genre, group of authors or a single major writer in French literature. This study varies each semester.

German Courses

108 GERMAN FOR BUSINESS 3 US-7

Not for credit GER maj min. Competence in German is not required.

German life, institutions, and language as they relate to business, including the attitude toward life, trade, banking, investments, law, and others. Both concepts and language are included.

111 FIRST-YEAR GERMAN

(PART I) 4 US-1

F.S

Not rec if student had three yrs HS GER. Not for credit if had GER 113 except cons dept chair. Not for credit if had GER 115 or 116.

Pronunciation, essentials of grammar, reading materials of graded difficulty, oral and written exercises.

112 FIRST-YEAR GERMAN

(PART II) 4 US-1

F.S

Not rec if student had three years HS GER. Not for credit if had GER 113 except cons dept chair. Not for credit if had GER 115 or 116.

Continuation of Part I.

**113 ELEMENTARY GERMAN
COMPOSITION AND
CONVERSATION 2**

GER 112 or cons dept chair. Conc reg with GER 115 and 116 acceptable.

Oral and written exercises and short discussions leading to a command of elementary, idiomatic German.

**115 SECOND-YEAR GERMAN
(PART I) 4 US-1 F.S**

GER 112 or two yrs HS GER.

Class reading of short stories, plays and essays. Grammar review, oral and written composition.

**116 SECOND-YEAR GERMAN
(PART II) 4 US-1 F.S**

GER 112 or two yrs HS GER.

Continuation of Part I.

211 GERMAN NOVELLE 3 US-2

GER 116 or cons dept chair.

Reading and discussion of representative German Novellen.

**213 INTERMEDIATE GERMAN
COMPOSITION AND
CONVERSATION 3**

GER 116 or cons dept chair.

Continued intensification of writing and speaking skills; vocabulary building and conversation, with emphasis on idiomatic expressions.

**214 GERMAN CONVERSATION
PRACTICE 2**

GER 116 or cons dept chair.

Improvement of active command of previously learned skills, including diction, pronunciation, comprehension capacity.

216 GERMAN DRAMA 3 US-2

GER 116 or cons dept chair.

Lectures, reading, and discussion of representative works of outstanding German, Austrian and Swiss dramatists.

**217 GERMAN CULTURE AND
CIVILIZATION 3**

GER 116 or cons dept chair.

An overview of German culture from the beginning to World War I, as derived from selected readings and class discussions.

218 GERMANY TODAY 3

GER 116 or cons dept chair.

A study of the German scene since World War I, as reflected in essays and articles of representative authors. Strongly recommended for teaching majors.

**221 SURVEY OF GERMAN
LITERATURE I 3**

GER 116 or cons dept chair.

Reading and discussion of representative works of the most important authors from the 8th century to circa 1770.

**222 SURVEY OF GERMAN
LITERATURE II 3**

GER 116 or cons dept chair.

Reading and discussion of representative works of the most important authors from the early 19th century to the present.

302 GOETHE 3

Two crses beyond GER 116.

Reading and discussion of a number of major works, with emphasis on the drama.

303 SCHILLER 3

Two crses beyond GER 116.

Reading and discussion of a number of major works, with emphasis on the drama.

309 GERMAN PHONETICS 2

Two crses in GER lit.

Scientific approach to German pronunciation; correct formation of German sounds, practical application of theory of phonetics to teaching.

**313 ADVANCED GERMAN COMPOSITION
AND CONVERSATION 2**

GER 213 or cons dept chair.

Free discussion of topics of contemporary interest; oral and written themes based on the class discussions.

318 GOETHE'S FAUST 3

Two crses beyond GER 116.

Critical study of Parts I and II of *Faust* as an expression of Goethe's philosophy. Lectures, readings, and reports.

332 GERMAN LYRIC POETRY 2

GER 116 or cons dept chair.

Reading and interpretation of German lyric poetry from 800 A.D. to the present.

**385 SELECTED TOPICS IN
GERMAN LITERATURE 3**

Two crses in GER lit. May be repeated if content different.

Intensive study of a genre, group of authors, or a single major writer in German literature.

Italian Courses

111 FIRST-YEAR ITALIAN

(PART I) 4 US-1

Pronunciation; essentials of grammar; exercises in comprehending, speaking, and reading material of graded difficulty.

112 FIRST-YEAR ITALIAN

(PART II) 4 US-1

Continuation of Part I.

Russian Courses

111 FIRST-YEAR RUSSIAN

(PART I) 4 US-1

Pronunciation and essentials of grammar. Emphasis placed on speaking and listening, with some reading and writing.

112 FIRST-YEAR RUSSIAN

(PART II) 4 US-1

Continuation of Part I.

115 SECOND-YEAR RUSSIAN

(PART I) 4 US-1

RUS 112 or equivalent HS RUS.

A continuation of RUS 112 with more advanced reading, writing and speaking.

116 SECOND-YEAR RUSSIAN

(PART II) 4 US-1

Continuation of Part I.

217 RUSSIAN CIVILIZATION 3

RUS 116.

Reading of essays concerning Russian history, culture, and contemporary Soviet life.

221 and 222 READINGS IN RUSSIAN

LITERATURE 3 ea

RUS 116.

Reading and discussion of the most important Russian authors.

231 RUSSIAN CONVERSATION AND COMPOSITION 2

RUS 116.

Written and oral composition; conversation designed to build vocabulary and improve pronunciation.

285 SELECTED TOPICS IN RUSSIAN LITERATURE 3*May be repeated if content different.*

Intensive study of a genre, group of authors or a single major writer in Russian literature. The field of study will vary each semester.

290 ADVANCED RUSSIAN SYNTAX 3*One 200 level RUS crse, Jr or Sr standing, cons inst.*

Advanced treatment of Russian grammar; grammatical exercises; free and directed composition in Russian.

Spanish Courses**111 FIRST-YEAR SPANISH**

(PART I) 4 US-1

F.S

Not rec if student had three yrs HS SPA. Not for credit if had SPA 115 or 116.

Fundamentals of grammar. Practice in speaking, understanding, reading and writing Spanish.

112 FIRST-YEAR SPANISH

(PART II) 4 US-1

F.S

Not rec if student had three years HS SPA. Not for credit if had SPA 115 or 116.

Continuation of Part I.

114 ELEMENTARY SPANISH COMPOSITION AND CONVERSATION 2*Not recommended for adv students.*

Conversational practice with exercises in elementary composition.

115 SECOND-YEAR SPANISH

(PART I) 4 US-1

F.S

SPA 111 and 112 or equiv. Formerly SPA 116.

Review of Spanish grammar, vocabulary building, oral and written practice.

116 SECOND-YEAR SPANISH

(PART II) 4 US-1

F.S

SPA 115 or equiv. Formerly SPA 115.

Continuation of Part I. Emphasis on reading and discussion of Spanish short stories with continuing review of grammar.

211 MODERN SPANISH NOVEL 3

SPA 116.

Reading and discussion of representative Spanish and Spanish American novels.

216 MODERN SPANISH DRAMA 3

SPA 116.

Reading and class discussion of representative Hispanic dramatists of the 19th and 20th centuries.

217 CIVILIZACION ESPANOLA 2

SPA 116.

Spanish customs and institutions in their historical perspective.

218 CIVILIZACION HISPANOAMERICANA 2

SPA 116.

Cultural life and customs of Spanish-speaking countries in the Americas.

221 SURVEY OF SPANISH LITERATURE I 3 US-2

SPA 116 or equiv.

Reading and discussion of representative Hispanic writers of the 16th and 17th centuries.

222 SURVEY OF SPANISH LITERATURE II 3 US-2

SPA 116 or equiv.

Reading and discussion of representative Hispanic writers of the 18th and 19th centuries.

231 ADVANCED SPANISH COMPOSITION AND CONVERSATION 3

SPA 116.

Composition and conversation based on modern Spanish prose with special attention to idioms and the finer points of grammar.

242 SURVEY OF SPANISH-AMERICAN LITERATURE 3 US-2

SPA 116 or equiv.

Introduction to the works of Spanish-American authors with emphasis on the 19th and 20th centuries.

305 CURRENT TOPICS IN HISPANIC CIVILIZATION AND CULTURE 3*Taught in Spanish. May be repeated if content different. Formerly FOR 304.*

Study of recent trends, issues and changes in Spanish-speaking world. Varying topics and pedagogical strategies for teaching culture.

309 SPANISH PHONETICS 3*Taught in Spanish.*

Learning, using and teaching correct Spanish pronunciation, stress and intonation.

310 SPANISH SYNTAX 3*Taught in Spanish.*

A systematic and thorough study of the fundamental points of Spanish grammar and composition.

331 SPANISH-AMERICAN LITERATURE I 3*Taught in Spanish.*

From the colonial period through realism.

332 SPANISH-AMERICAN LITERATURE II 3*Taught in Spanish.*

From modernism to the present.

335 MEXICAN LITERATURE 2*Taught in Spanish.*

A survey of Mexican literature and its literary background from its beginnings to the present.

336 SELECTED TOPICS IN SPANISH AMERICAN LITERATURE 3*Taught in Spanish. May be repeated if content different.*

Variable topics providing in-depth study of major authors, works, genres, themes or movements.

337 SELECTED TOPICS IN MODERN PENINSULAR SPANISH LITERATURE 3*Taught in Spanish. May be repeated if content different.*

Major authors, genres or movements from Spanish literature of the 18th, 19th and 20th centuries.

372 SPANISH DRAMA OF THE GOLDEN AGE 3*Taught in Spanish.*

Reading and discussion of selected plays from the great dramatists of Spain's Golden Age.

385 SELECTED TOPICS IN SPANISH LITERATURE 3

May be repeated if content different.

Intensive study of a genre, movement, author or work. This study varies each semester.

GEOGRAPHY-GEOLOGY (GEO)

206 Schroeder Hall

Chairperson: Michael D. Sublett.

Faculty: Professors: Mattingly, Miller, Patterson, Schmidt, Searight, Shuman. Associate Professors: Hart, Kirchner, Nelson, Sublett, Walters. Assistant Professors: Anderson, Asbury, De Meo, Hill, Johnson, Naim. Instructor: Foster. Adjunct Faculty: Bettis.

Geography Programs

Degree Offered: B.A., B.S.

MAJOR IN GEOGRAPHY

— 37 hours in Geography required. Student's program must be planned in consultation with an adviser. Due to the variety of possible concentrations within the three Geography sequences, students are urged to consult informally with designated departmental faculty members. Names of those designated faculty are available in SH 206. The areas of concentration include: *Applied cartography*, environmental, planning, remote sensing; *Human-cultural*, historical, political, regional, urban-economic; *Physical-climatology*, geomorphology.

— Required courses: GEO 100, 135, 150, 300, 315, and one course from GEO 215, 220, 225, 230, 240, 245, 250, 255, or 260.

— One of the following sequences must be selected:

Applied Geography Sequence: Required courses: GEO 305, 308, 310, and 370. Additional electives must be selected from the following courses to complete the minimum requirements (37 hours) of the major. GEO 201, 205, 302, 330, 336, 338, 398 (4 hours maximum may be counted for the major), and designated Selected Studies, Independent Studies, and Regional and Area courses.

Human Geography Sequence: Required courses: GEO 205, 208, 336, and 338. Additional electives must be selected from the following courses to complete the minimum requirements (37 hours) of the major. GEO 210, 308, 310, 320, 345, and designated Selected Studies, Independent Studies, and Regional and Area Studies courses.

Physical Geography Sequence: Required courses: GEO 110, 200, 201, 305, and 380. Additional electives must be selected from the following courses to complete the minimum requirements (37 hours) of the major. GEO 202, 308, 310, 340, 382, and designated Selected Studies, Independent Studies, and Regional and Area Studies courses.

MINOR IN GEOGRAPHY

— 24 hours in Geography required.

— Required courses: GEO 100, 135, 150, 300, 315, and one course selected from GEO 215, 220, 225, 230, 240, 245, 250, 255, or 260. Additional electives must be selected from the required courses in one of the sequences in the major to complete the minimum requirements of 24 hours.

— Note on Geography Minor: Students wishing to minor in

Geography are requested to inform the department of their intention and are invited to discuss their program with an adviser.

MAJOR IN GEOGRAPHY EDUCATION

- 37 hours required. Part of entitlement program leading to certification: secondary 6-12. Student's program must be planned in consultation with an adviser.
- Required courses: GEO 100, 110, 135, 145, 150, 200, 201, 205, 275; one course selected from GEO 215, 220, 225, 230, 240, 245, 250, 255, or 260; GEO 307, or HIS 290 and 390.
- Additional electives in Geography must be selected to complete the minimum requirements (37 hours) of the major.

If a student chooses to focus on Physical Geography, it is strongly recommended that a minor be selected from biological sciences, chemistry, mathematics, or physics. If a student chooses to focus on Human/Regional Geography, it is strongly recommended that a minor be selected from anthropology, economics, history, political science, or sociology.

Teacher education majors also should note the University-wide Teacher Education Program Requirements found elsewhere in this catalog.

MINOR IN GEOGRAPHY EDUCATION

- 24 hours required
- Required courses: GEO 100, 110, 135, 145, 150, 200; GEO 307 or HIS 290.

Geology Programs

Degrees Offered: B.A., B.S.

MAJOR IN GEOLOGY

- 37 hours in Geology required.
- Required courses: GEO 105, 107, 280, 285, 295, 395 or an equivalent accredited summer field course.
- BSC 190; CHE 140, 141; PHY 108, 109; MAT 115, 116 strongly recommended.

MINOR IN GEOLOGY

- 22 hours in Geology required.
- Required courses: GEO 175, 180, 290.
- Note on Geology Minor: Students wishing to minor in Geology are requested to inform the department of their intention and are invited to discuss their program with an adviser.

Geography Courses

100 EARTH SCIENCE 3 US-3 F.S. Summer

Spatial distributions, associations, and processes of the natural environment including landforms, weather, climate, soils, vegetation.

110 WEATHER 2 US-3 F.S. Summer

An introduction to atmospheric science, leading to a better understanding of day-to-day weather, including frontal systems and severe storms.

135 WORLD GEOGRAPHY 3 US-5 F.S. Summer

Regions and spatial distribution of peoples, languages, religions, economic activities and settlement patterns of the world.

145 MAPS AND MAP READING 3 F.S

Fundamental map concepts. Development of the map. The major types of maps and how to read them.

150 ECONOMIC GEOGRAPHY 3 US-5 F.S

Spatial distribution of a variety of activities related to production, exchange, and consumption of goods and services.

200 CLIMATE 2 S

GEO 110 rec.

Climatic classification, sources of climatic data, world climatic patterns, and climatic effects on natural vegetation and human activities.

201 PHYSICAL GEOGRAPHY 3

GEO 100 or 105. Field trips req.

Spatial analysis of selected topics involving the physical environment. Topographic maps and aerial photography used extensively.

202 GEOGRAPHY OF SOILS 3

Field work req. GEO 100 or equiv req.

Factors and processes of soil development. Analysis of soils on the landscape. Classification of United States and world soil groups.

205 CONSERVATION OF NATURAL RESOURCES 3 US-5 F.S, Summer

An examination of the human impact on the natural environment. Emphasizes soil, wildlife, forest, mineral and fuel, water and air conservation.

208 POLITICAL GEOGRAPHY 3 F

Introduction to the field of political geography. Emphasis on spatial patterns of political activity.

210 HISTORICAL GEOGRAPHY 2 S

Introduction to the field of historical geography with emphasis on analysis and reconstruction of past geographies.

215 UNITED STATES 3

Major regions of the United States in terms of contemporary physical, cultural, and natural resource patterns.

220 ILLINOIS 2

Field trips may be included.

Physical environment and patterns of human occupancy including agriculture, industry, transportation, and utilization of mineral resources.

225 CANADA 3

Natural regions, resources, economic activities, settlement patterns, interregional and international relations.

230 LATIN AMERICA 3

Regional analysis of the major political units; emphasis on physical, cultural, and economic characteristics.

240 EUROPE 3

Europe based upon regions. Present importance and possible future of each in the light of geographic conditions.

245 SOVIET UNION 3

Physical resource patterns and their significance to industrial, agricultural land use, general economic, and political development.

250 AFRICA 3 US-8

Regional study of Africa. Patterns of society as related to the natural environment.

255 ASIA 3 US-8

Countries, regions, and peoples of Asia. Selected regions, specific localities, and special problems.

260 AUSTRALIA AND THE PACIFIC 3

Patterns of the natural environment and man's historical,

economic, and political development in Australia, New Zealand, Micronesia, Melanesia, and Polynesia.

265 OUR NATIONAL PARKS 3 F.S

Field trips may be included.

National Parks of the United States in terms of physiography, geology, climate, flora, fauna, and scenic qualities.

300 CARTOGRAPHY 3 F.S

Field trip and drafting supplies req. GEO 145 rec.

Theory and techniques regarding representation of statistical data, including compilation and preparation of various types of thematic maps.

302 COMPUTER CARTOGRAPHY 3 S

GEO 300 req.

Application of the computer to contemporary cartography. Packaged software and student-generated programs are used to investigate various spatial problems.

305 REMOTE SENSING 3 F

Field trip req.

Basic principles of photogrammetry. Techniques and measurements in remote sensing.

306 REGIONAL AND AREA STUDIES 1-9

Field work req.

Intensive on site study of particular lands, environments, cultures, and peoples.

307 METHODS OF TEACHING PHYSICAL GEOGRAPHY 3 F

Teaching maj only. Undergraduate credit only. C&I

200 (6 hours) or 200.03 (grade of C or better req) or 215

(2 hours) req or conc req. 8 hours of physical geography or geology req. Inc Clin Exp.

Approaches to the teaching of physical geography and earth science in grades 6-12.

308 QUANTITATIVE METHODS IN GEOGRAPHY 3 S

Use and interpretation of basic statistical techniques in geographical problems.

310 FIELD GEOGRAPHY 3 F

Field work req.

Techniques for the systematic acquisition and interpretation of geographic field data.

315 METHODS AND CONCEPTS IN GEOGRAPHY 2 F.S

Selected professional publications, designed to acquaint the student with the development of basic concepts and methods in geography.

320 RURAL LAND USE AND AGRICULTURAL GEOGRAPHY 3

GEO 150 rec.

Spatial aspects of agriculture: regionalization, distribution, and theories of location relating to crop and livestock production and other rural land uses.

330 TRANSPORTATION AND COMMUNICATION 3 F

GEO 150 rec.

Geographic analysis of systems of spatial interaction including influence of transportation on industrial location and regional development.

336 URBAN GEOGRAPHY 3 S

Internal morphology, external relationships, and other spatial aspects of cities.

338 LIFE AND LANDSCAPE 3

GEO 135 rec. Field work required.

Cultural landscapes and folklife in North America and Western Europe.

340 PROBLEMS IN CLIMATOLOGY 3
GEO 200 req.

Investigation of specific problems in climatology.

345 PROBLEMS IN CONSERVATION AND OUTDOOR RECREATION 3
GEO 205 req.

Investigation of specific problems in conservation and resource use including outdoor recreational resources.

350 URBAN PHYSICAL ENVIRONMENTS 3
GEO 201 req.; GEO 370 rec. Field trips req.

Examination of urbanization-caused changes in various physical systems.

355 REMOTE SENSING II: IMAGE INTERPRETATION AND ANALYSIS 3
GEO 305 req. Field trip req.

Investigation of major spectral bands employed in remote sensing technology. Applications to subfields are studied through manual and digital image analysis.

370 URBAN AND REGIONAL PLANNING 3 F

Introduction to the planning process and the major elements used in plan implementation such as zoning regulations, subdivision regulations, and the official map. Field research may be required.

398 PROFESSIONAL PRACTICE: INTERNSHIP IN APPLIED GEOGRAPHY 1-16 F.S. Summer
75 hrs., 2.6 GPA, and cons dept chair. Max 4 hrs. credit toward Geography maj. 40 hrs. of practice per credit hr. Advance arrangements req.

Planned, supervised professional experience in a public or private organization. The experience provides an introduction to a career in applied geography.

Geology Courses

105 INTRODUCTION TO GEOLOGY I 4 US-3 F.S
Lecture and laboratory. Formerly GEO 175.

Origin and types of earth materials, internal and external earth processes and development of landscapes.

107 INTRODUCTION TO GEOLOGY II 4 US-3 F.S
GEO 100 or 105 or 189 (*The Restless Earth*) req.
Formerly GEO 180. Lecture and laboratory. Field trip req.

Origin and evolution of the earth as interpreted from rock sequences, fossils, and geologic maps; emphasis on geologic principles.

185 COMMON ROCKS AND MINERALS 2 F.S
Not for credit maj or if had GEO 105. Lecture and laboratory.

Genesis, description, classification, and identification of common rocks and minerals.

195 INTRODUCTION TO OCEANOGRAPHY 3 US-3 S
Also offered as BSC 195.

General principles of biology, chemistry, geology, and physics as applied to a study of the world's oceans.

275 LIFE OF THE GEOLOGIC PAST 2 F.S
Not for credit maj.

Origin, classification and evolution of life from early forms to modern types.

276 ENVIRONMENTAL GEOLOGY 3 S
Recognition of geologic hazards such as earthquakes and floods. Evaluation of geologic resources and the legal and geologic limitation of resource utilization.

278 GEOLOGIC TECHNIQUES 3 F.S
GEO 105, 107 req.

Methods, materials, and equipment used in analysis, interpretation, and mapping of earth materials, physical environments, and geologic structures.

280 MINERALOGY 4 F
GEO 105 and CHE 140 req. Lecture and laboratory.
Crystallography, internal structure, chemistry, recognition and occurrence of minerals.

285 IGNEOUS AND METAMORPHIC PETROLOGY 4 S
GEO 280 req. Lecture and laboratory. Field trip req.
Formerly PETROLOGY.

Description, classification and origin of igneous, sedimentary, and metamorphic rocks.

290 STRUCTURAL GEOLOGY 4 F
GEO 107 req. MAT 110 rec. Lecture and laboratory.
Field trip req.

Mechanics and processes of deformation of the earth's crust and the resulting structures.

295 SEDIMENTOLOGY 3 F
GEO 107 req. Lecture and laboratory. Field trip req.
Formerly SEDIMENTATION.

Origin, transportation, deposition, and diagenesis of sedimentary materials with emphasis on classification of sedimentary rocks.

296 STRATIGRAPHY 3 S
GEO 107 req. GEO 295 rec. Lecture and laboratory.
Field trip req.

Distribution, correlation and analysis of stratified rocks.

360 GROUNDWATER GEOLOGY 3
GEO 105 req. Field trips req.

Groundwater occurrence and movement, aquifer evaluation, field and lab measurements, contamination and other applications.

362 ENGINEERING GEOLOGY 3
GEO 105 req. Field trips req. PHY 108, 109 rec.

Engineering applications of geology, construction problems of geologic origin and their engineering solutions.

375 ECONOMIC GEOLOGY OF FOSSIL FUELS 3 F
GEO 107 req. Formerly ECONOMIC GEOLOGY.

Methods of exploration; origin, composition, accumulation, and production of petroleum; composition, classification, and production of coal; world fuel resources.

377 GEOLOGY OF ORE DEPOSITS 3 S
GEO 280 req.; GEO 290 rec.

Theory of processes of ore formation, controlling factors of ore localization, with case studies.

380 GEOMORPHOLOGY 3 S
GEO 100 or 105 req. Field trips req.

Origin, classification, description and interpretation of landforms.

382 GLACIAL AND QUATERNARY GEOLOGY 3 F
GEO 100 or 105 req. Field trips req.

Development of glaciers, glacial movements, deposits, and

land forms as background for discussion of present landscapes.

**384 REGIONAL GEOLOGY
OF THE UNITED STATES 3 F**
GEO 107 req.

A systematic study of the stratigraphy, structural geology, and geomorphology of the United States based on natural geologic regions.

385 INVERTEBRATE PALEONTOLOGY 4 F
*GEO 107 req. BSC 190 rec. Lecture and laboratory.
Field trip req.*

Examination and analysis of major fossil invertebrate phyla; emphasis on groups with paleoecologic and stratigraphic significance.

386 MICROPALAEONTOLOGY 4 S
GEO 385 rec.

Study of calcareous, siliceous and phosphatic micro-fossil groups with emphasis on their structure, classification, ecologic/paleoecologic and time-stratigraphic utility.

390 OPTICAL MINERALOGY 4 F
GEO 280 req. Lecture and laboratory.

Optical theory and techniques in the use of the petrographic microscope, optical identification of minerals using oil immersion and thin-section methods.

392 GENERAL PETROGRAPHY 4 S
GEO 285, 390 req. Lecture and laboratory.

Petrographic study of mineralogy, textures, mineral paragenesis and classification of igneous, sedimentary, and metamorphic rocks in thin-section.

395 FIELD GEOLOGY 6 Summer Only
GEO 280, 285, 290, 295 req.

Application of geologic principles to field mapping and interpretation in the Black Hills and Central Rocky Mountains.

HISTORY (HIS)

334 Schroeder Hall

Chairperson: L. Moody Simms, Jr.

Faculty: Professors: Champagne, Ekberg, Freed, Grabill, Gray, Holsinger, Homan, Plummer, Reitan, Schapsmeier, Simms, Walker. Associate Professors: Austensen, Boothe, Cohen, Davis, Haddad, Holt, D. MacDonald, Rayfield, Sessions, Wray, Wyman. Assistant Professors: Cunningham, M.F. Palo. Instructors: Booth, Harmon, S. MacDonald. Lecturer: Bridges.

History Programs

Degrees Offered: B.A., B.S.

MAJOR IN HISTORY

— 33 hours in History required.
— Required courses: a minimum of 21 hours at the upper division level, including 2 courses at the 300-level; 3 hours each in United States, European, and non-Western History.

MAJOR IN HISTORY EDUCATION

— 33 hours in History required. Part of entitlement program leading to certification: secondary 6-12.
— Required courses: A minimum of 21 hours at the upper-division level, including two courses at the 300-level.

Distribution requirements are 9 hours of United States History, 9 hours of World History (3 of which must be non-Western), and History 290 and 390.

- State certification and University requirements include an education minor field and 24 hours of Professional Education.
- 8 additional hours must be taken from one of the following areas ECO, GEO, POS, SAS.

MINOR IN HISTORY

- 21 hours in History required.
- Required courses: 12 hours at the upper-division level; 3 hours each in United States, European, and non-Western History.

MINOR IN HISTORY EDUCATION

- Requirements are the same as for History minor; HIS 290 recommended.
- Requirements for teacher education major in another department must be met.

Honors in History: The department offers honors work in History to highly qualified juniors and seniors who will pursue an individualized program of study. The honors program enables the superior student to reinforce guided private study on historical topics of the student's own choosing with seminar-style research. Students interested in participating in the department's honors program may secure further information by contacting the chairperson of the Department of History. The department also offers in-course honors work in all its courses for students enrolled in the University Honors program or in any departmental honors program. In-course honors work is offered at the discretion of the instructor.

History Courses

121 HISTORY OF WESTERN CIVILIZATION TO 1300 3 US-2 F,S

Primitive man; the ancient cultures; the civilizations of Greece and Rome; the Middle Ages.

123 EARLY MODERN EUROPE 3 US-2 F,S

Formerly *HISTORY OF MODERN EUROPE I: 1300-1815*. Survey of the development of modern European civilization, from the period of its formation through the French Revolution and Napoleonic Era.

124 MODERN EUROPE 3 US-2 F,S

Formerly *MODERN EUROPE SINCE 1789*. A survey of modern European developments from the Congress of Vienna to the present.

125 HISTORY OF ASIAN CIVILIZATIONS 3 US-8 F,S

An introduction to the major traditions of India, Southeast Asia, China and Japan; emphasis on continuity and change in modern Asia.

126 HISTORY OF THE MIDDLE EAST AND AFRICA 3 US-8 F,S

A political, cultural, social, and economic study, with an emphasis on ancient cultures and the emergence of nation-states.

127 HISTORY OF LATIN AMERICA 3 US-8 F,S

Formerly HIS 261 and 262. Cultural, economic, political and social survey of Latin America from pre-Columbian to present times.

135 HISTORY OF THE UNITED STATES TO 1865 3 US-2

Not for credit if had HIS 137.

Political, economic, social, and cultural developments from the colonial period to the Civil War.

136 HISTORY OF THE UNITED STATES SINCE 1865 3 US-2

Not for credit if had HIS 137.

Agrarian and industrial revolutions, development of American institutions, and America as a world power.

137 THE AMERICAN EXPERIENCE 3 US-2

Not for credit if had HIS 135 or 136.

A one-semester course in American History emphasizing a theme of special interest. The theme may vary with each semester or instructor.

220 ANCIENT HISTORY:**GREECE 3 US-2**

Political and cultural evolution of the Greek World from preclassical times to the Hellenistic Age.

221 ANCIENT HISTORY:**ROME 3 US-2**

The Roman republic and empire with emphasis on the constitutional evolution of Rome.

222 THE MIDDLE AGES I: 395-1100 3 F

Study of the disintegration of ancient civilization and the gradual emergence of three successor civilizations: Byzantium, the Moslem World, and Western Europe.

223 THE MIDDLE AGES II: 1100-1500 3 S

An examination of the climax and decline of medieval civilization.

224 THE RENAISSANCE:**EUROPE: 1300-1500 3**

Political, economic, social, intellectual, cultural transition to early modern Europe; spread of Renaissance from origins in Italy; exploration and discovery.

225 THE REFORMATION:**EUROPE: 1500-1600 3**

Protestant and Catholic reformations in the setting of 16th century politics, economics, society; intellectual and cultural currents; European expansion.

228 EUROPE IN THE NINETEENTH**CENTURY: 1815-1914 3 US-2 F**

Liberalism, nationalism, democracy, militarism, imperialism, and the forces that led to World War I.

229 EUROPE IN THE TWENTIETH**CENTURY 3**

The origins of the World Wars, Marxism-Leninism, Nazi and Soviet totalitarianism, and the role of Europe in the Cold War.

230 THE CONTEMPORARY**WORLD 3**

The major economic, social, political, and cultural changes since 1945. The Cold War, the revolution in expectations and the emerging concern over depletion of resources and environmental imbalances.

231 CONSTITUTIONAL AND LEGAL HISTORY OF ENGLAND**TO 1688 3**

Formerly ENGLISH HISTORY I: TO 1783.

Essential English background to American government and law; the constitutional and legal development of England is placed in its political, social, religious, and intellectual context.

232 ENGLISH HISTORY SINCE 1688 3 S

Formerly ENGLISH HISTORY II: SINCE 1783.

English history from the Glorious Revolution of 1688-89 to the present; political, social, and cultural history are emphasized.

233 HISTORY OF RUSSIA I:**TO 1725 3****F**

Russian history from earliest times to the 18th century, including political, social, economic, and intellectual developments.

234 HISTORY OF RUSSIA II:**SINCE 1725 3****S**

Russian political, social, economic, and intellectual developments; the Russian Revolution; Russia in the 20th century.

235 FRENCH HISTORY**TO THE REVOLUTION 3 US-2****F**

Formerly: FRENCH HISTORY TO 1789.

French history from the Middle Ages to the French Revolution with emphasis upon French culture, including social, intellectual and artistic movements.

236 MODERN FRANCE 3

Formerly FRENCH HISTORY II: 1789-PRESENT.

Survey of the major political, economic, and cultural developments in France from the Napoleonic era to the present.

237 MODERN GERMANY:**1848-PRESENT 3****F**

A survey of German social, political, diplomatic, and intellectual history in the 19th and 20th centuries.

239 EUROPEAN ECONOMIC HISTORY 3**S**

Emphasis on institutions and economic activity over time, from land tenure to trade, in changing political and technological environments.

241 COLONIAL LIFE AND INSTITUTIONS 3**F**

Transfer of European ideas, institutions, and customs to America, and their subsequent development on American soil.

243 THE EARLY NATIONAL PERIOD,**1787-1815 3****F.S**

Emphasis upon the establishment of a national government; the principles and influence of early federalism and of Jeffersonian democracy.

244 THE AGE OF JACKSON:**1815-1848 3****S**

The awakening of American nationalism as typified by the economic, political, social and cultural changes of the Jacksonian period.

246 CIVIL WAR AND RECONSTRUCTION:**1848-1877 3****F**

Causes and process of secession; problems of the Lincoln and Davis administrations, conduct of the war, and the problems of reconstruction.

247 THE GILDED AGE IN AMERICA:**1877-1900 3****F**

Industrialization and responses to industrialism in America; special attention given to business and political leaders, farmers, Afro-Americans, and writers.

248 UNITED STATES IN THE TWENTIETH**CENTURY I 3****F.S**

An examination of significant aspects of American history from the Populist era to the Great Depression of 1932.

249 UNITED STATES IN THE TWENTIETH CENTURY II 3 F.S

An examination of significant aspects of American history from the 1930's to contemporary times.

250 HISTORY OF WOMEN IN AMERICA 3 F.S

The role of women in the economic, social, political, and cultural history of America from the colonial period to the present.

251 HISTORY OF AMERICAN DIPLOMACY I: TO 1898 3 F

The history of the foreign relations of the United States from the revolution to 1898.

252 HISTORY OF AMERICAN DIPLOMACY II: SINCE 1898 3 S

The history of the foreign relations of the United States since 1898.

253 AMERICAN CONSTITUTIONAL HISTORY 3 F

The history of American constitutional and legal developments from the colonial period to the present.

254 CHICANO HISTORY 3 S

Survey of the Mexican-American role in and contribution to the development of the United States since 1848.

255 HISTORY OF THE AMERICAN FRONTIER 3 F.S

Westward movement and the influence of the frontier on American life and institutions.

256 AMERICAN BUSINESS HISTORY 3 F

Industrialization of America; the problems of agriculture, monopoly, and labor; the role of government in regulating and guiding economic activity.

257 AFRO-AMERICAN HISTORY I 3 F

The history of Black Americans from Colonial times to the Civil War.

258 AFRO-AMERICAN HISTORY II 3 S

The history of Black Americans from the Reconstruction period to the present.

259 HISTORY OF ILLINOIS 3 S

A survey of the history of Illinois from the time of the French explorers to the present.

260 HISTORY OF CANADA 3 S

Formerly HISTORY OF CANADA SINCE 1763.

A survey of the history of Canada from the settlement of the French colonists in the 17th century to the present.

263 MODERN MEXICO 3 US-8 F

Survey of Mexican history from the mid-eighteenth century.

271 ISLAMIC CIVILIZATION 3 US-8 F

Formerly HISTORY OF THE MIDDLE EAST I: TO 1800.

Political, social, economic survey of the Middle East from Muhammad to the 19th century, emphasizing origins and achievements of the Islamic age.

272 MODERN MIDDLE EAST 3 S

Formerly HISTORY OF THE MIDDLE EAST II: SINCE 1800.

Political, social, and economic survey of the Middle East from the 19th century to the present, emphasizing the rise of the modern nation-states.

274 HISTORY OF MODERN MEDICINE 3 F

A survey of the rise of modern medicine from 1500 to the present.

275 HISTORY OF JAPANESE CIVILIZATION 3 US-8 F

History of Japanese civilization which examines Japanese religions, philosophies, art, music, literature, societal values and behavior topically and chronologically.

276 HISTORY OF CHINESE CIVILIZATION 3 S

History of Chinese civilization which examines Chinese religions, art, music, literature, and societal values and behavior topically and chronologically.

279 WORLD WAR II 3 S

A general survey of World War II including military, diplomatic, and cultural concerns, with the United States receiving primary attention.

290 SOCIAL STUDIES TEACHING METHODOLOGY I 3

C&I 200 (4 hrs.) or 200.01 & 200.02 (4 hrs. grade of C or better req.) or 216 (4 hrs.) or conc reg. Exceptions may be made by cons inst. Required for HIS/SOC SCI maj in teacher education programs. Incl Clin Exp.

Special methods and pre-student teaching clinical experiences for History-Social Science teacher education students. Includes observation and participation in actual classroom settings. Must be completed prior to student teaching.

294 HONORS THESIS 3 F.S

Honors students or cons inst. Formerly HIS 298. Directed by a faculty member competent in the thesis field. Topic shall be approved before registration by the History Department.

296 HISTORIOGRAPHY AND HISTORICAL METHOD 3 F

Explores the character and discipline of history through the study of representative historians.

306 REGIONAL AND AREA STUDIES 1-9

Cons inst. Usually given cooperatively with other depts.

Intensive study of particular lands, environments, cultures, and peoples.

311 AGE OF THE AMERICAN REVOLUTION 3

The emergence of the United States as an independent nation from 1763 to the Constitutional Convention in 1787.

320 LINCOLN: THE MAN AND HIS TIMES 3

Attention directed especially toward the work of Lincoln in Illinois, his leadership during the Civil War, and his relationships with people and events of his time.

321 GREAT FIGURES OF AMERICAN HISTORY 3

Personalities selected from American history with emphasis on the contributions and lasting influence of significant individuals.

322 AMERICAN URBAN HISTORY 3

Survey of the history of the American city from 1820 to the present.

323 AMERICAN CULTURAL AND INTELLECTUAL HISTORY I 3

American progress in the fine arts, philosophy, literature and science from Puritan times to 1860.

324 AMERICAN CULTURAL AND INTELLECTUAL HISTORY II 3

The impact of naturalism, industrialization, secularization, and urbanization upon American culture since 1860.

**325 PROBLEMS IN TWENTIETH CENTURY
UNITED STATES CONSTITUTIONAL
HISTORY 3**

An examination of major problems in American constitutional history since the Progressive Era; civil rights, freedom of speech and religion, federal-state relations.

327 AMERICAN LABOR HISTORY 3

The Industrial Revolution's impact upon workers, with emphasis on the responses through unions and politics, and on the role of government.

330 THE FAMILY IN HISTORY 3 F

History of the family in Europe and America, viewing the changes from idealist, economic determinist, family systems, and psychoanalytic perspectives.

**341 EUROPEAN INTELLECTUAL HISTORY
TO 1600 3**

The study of the ideas of the ancient world, Middle Ages, Renaissance, Reformation, examined in a social, political and economic context.

**342 EUROPEAN INTELLECTUAL HISTORY
SINCE 1600 3**

A study of the ideas of the scientific revolution, enlightenment, 19th century and 20th century, examined in a social, political and economic context.

**343 MODERN EUROPEAN DIPLOMATIC
HISTORY I: 1789-1890 3**

The diplomatic history of Europe from the French Revolution to the fall of Bismarck.

**344 MODERN EUROPEAN
DIPLOMATIC HISTORY II:
1890 TO PRESENT 3**

The diplomatic history of Europe from the fall of Bismarck in 1890 to the present.

**345 FRENCH REVOLUTION AND
NAPOLEON: 1789-1815 3**

Society, culture and government under the monarchy; destruction of the old order; rise and fall of Napoleonic France.

351 ANCIENT NEAR EAST 3

Study of the civilizations of Mesopotamia and Egypt from the neolithic period to 500 B.C.

354 MEDIEVAL RELIGIOUS HISTORY 3

A history of Christianity from Constantine to the Reformation.

356 THE ENLIGHTENMENT 3 F.S

Intellectual and social history of the western world during the eighteenth century.

**361 EIGHTEENTH-CENTURY BRITAIN:
1688-1815 3**

Britain from the Revolution of 1688-89 through the early Industrial Revolution and Napoleonic wars.

**362 MODERN BRITAIN: 1815
TO THE PRESENT 3**

A general survey of British history in the 19th and 20th centuries.

365 NAZI GERMANY: 1933-45 3

Reading, discussion and research in the major books and articles in the field.

**366 SOVIET RUSSIA: 1917 TO
THE PRESENT 3**

An evaluation of the origins and rise of Bolshevik power, concentrating on economic, cultural and social developments leading to great power status.

**373 HISTORY OF
MODERN CHINA 3**

Concentrates on the Western and Chinese collision since the 1800's and the responses of traditional, national and contemporary China to modernization.

**375 HISTORY OF
MODERN JAPAN 3**

Concentrates on Japan's modernization, goals of Meiji leaders, contradictory tendencies of pre-war Japan, and contemporary Japan.

**377 HISTORY OF THE
ARAB-ISRAELI CONFLICT 3 F.S**

Historical analysis of the conflict between Arabs and Israelis emphasizing the roles of religion, nationalism, superpowers, and war in the conflict.

**390 SOCIAL STUDIES TEACHING
METHODOLOGY II 3**

HIS 290 and C&I 200 (6 hrs.) or 200.03 (2 hrs. Grade of C or better req.) or 215 (2 hrs.) or conc reg. Incl Clin Exp.

Examination of social studies project materials, use of instructional models, and clinical experiences. Must be completed prior to student teaching.

395 ARCHIVES AND MANUSCRIPTS 3 F

Nature, acquisition, processing and use of archives and manuscripts. Emphasis on theory and principles with practical exercises.

398 PROFESSIONAL PRACTICE 1-16

75 hrs; 2.6 GPA in HIS courses; completion of all application procedures; cons HIS prof prac coord. Max. 6 hrs. toward HIS majors. Formerly PROFESSIONAL PRACTICE: INTERNSHIP IN HISTORY.

Planned, supervised experience in a professional capacity in archives, business, government, historical archaeology, historic preservation, historical editing and publishing, historical societies, museums, or other application of history.

MATHEMATICS (MAT)

313 Stevenson Hall

Chairperson: Albert D. Otto.

Faculty: Professors: Berk, Dossey, Eggan, Friedberg, O'Daffer, Otto, Retzer, Ritt, Speiser, C. Vanden Eynden. Associate Professors: L. Brown, Charles, Clemens, Edge, Ha, Hathway, Insel, Morris, Sennott, Shilgalis, Singh, Spence, Thornton. Assistant Professors: Banks, Bazik, DeGuire, Gilmore, Hershberger, Jacobs, Parr, Plantholt, Seidenstein, Trojanowski, Tucker, Tucker, Wilmot. Instructors: Becker, Bogacz, Bye, Byers, Clydesdale, Eberly, Fathezad, Gehrke, C. Kirby, P. McGill, S. McGill, Miller, Nassar, Parsons, Pollack, Priester, Rich, J. Vanden Eynden.

Mathematics Programs

Degrees Offered: B.A., B.S.

Career Information: Career needs in a wide variety of vocations are met by the diverse course offerings in the Mathematics Department. These include vocations in secondary teaching, business management, and actuarial science; vocations that involve research or applications of mathematics in business, government, and industry; and vocations involving research or applications of mathemat-

ics in the physical and social sciences. The needs of those preparing for continued study and research in mathematics are met also by the departmental offerings. The undergraduate degree programs are designed to be sufficiently flexible to meet career aspirations, to allow for individual exploration in various areas of interest, and also to permit suitable breadth for a liberal education.

Students are urged to consult with the mathematics undergraduate director or mathematics faculty in planning their programs. Information on careers in mathematics can be secured from the mathematics undergraduate director in Stevenson 303A and from the Mathematics Career Center in Stevenson 330.

Students interested in meeting the requirements for certification to teach secondary school mathematics must consult with a mathematics education adviser to design a special program of studies.

Students preparing for a specific career are advised to include courses from one of the following lists. The courses with an asterisk should be among those selected. Those wishing a major or minor in Mathematics should select additional courses from the list as well. (Note that some courses in the following lists may not count toward major or minor requirements.):

Actuarial Science: 164, 340, 345, 350*, 351*, 356, 361, 368, 370.
Business Management: 164*, 317, 340, 350*, 351*, 356, 360,

361*, 368*, 370.

Secondary Teaching: 164, 210, 211*, 216*, 310, 314, 316, 320, 321, 323*, 324*, 326, 347, 350, 361.

Business, Government, and Industry: 164*, 317, 340*, 341, 345, 349, 350*, 351*, 356*, 360, 361, 368, 370.

Applications or Research in Physical Sciences: 164, 216, 314.03, 316, 317, 340*, 341*, 345*, 349*, 350, 370.

Applications or Research in Social Sciences: 164, 317, 340, 350*, 351*, 356*, 360, 361, 368.

Graduate Study and Research in Mathematics: 164, 210, 216*, 310, 314, 316*, 317*, 319, 340, 341, 345, 347*, 348, 349*, 350, 351, 360, 368, 370.

Notes on Mathematics Programs: The following courses may not be used to satisfy requirements for a major, comprehensive major, or minor: MAT 103, 105, 106, 107, 108, 109, 120, 121, 151, 152, 201, 202, 203, 204, 205, 220, 298, 301, 302, 303, 304, 305, 306, 307, 308.

Students who have taken calculus in high school may request to take a Calculus Proficiency Test. If proficiency credit is granted, students may begin their mathematics courses with MAT 116 or a higher level course. To ensure proper placement, transfer students should consult with an adviser prior to registration for classes. A maximum of four semester hours will be given toward a major or minor for acceptable precalculus courses based upon advanced placement or transfer.

COMPREHENSIVE MATHEMATICS MAJOR

- 52 hours in Mathematics required.
- Required courses: MAT 145, 146, 147, 175, 317; one computer programming course from ACS 164, MAT 164, or ACS 168. — At least 18 semester hours chosen from MAT 210, 211, 216, 310, 314, 316, 319, 340, 341, 345, 347, 348, 349, 350, 351, 360, 361, 366, 368, 370.
- As many as 10 hours chosen from courses outside of MAT that require calculus as a prerequisite may be substituted for elective hours in MAT.

COMPREHENSIVE MATHEMATICS EDUCATION MAJOR

- MAT 211, 216, and 323 are required. The requirements for the Comprehensive Mathematics Major must be met.

This major is part of the entitlement program leading to certification for secondary grades 6-12. (Note: MAT 211, 216, and C&I 200.03 or 215 or the equivalent are prerequisites for MAT 323. MAT 323 must be completed before the student teaching experience.)

- Students are encouraged to take electives from the list of Secondary Teaching courses above.
- Interested students should consult their adviser about opportunities for tutoring secondary school students, serving as a teaching assistant, or other relevant voluntary clinical experiences.

MAJOR IN MATHEMATICS

- 36 hours in Mathematics required.
- Required courses: MAT 145, 146, 147, 175; one computer programming course from ACS 164, MAT 164, or ACS 168.
- At least 12 semester hours must be chosen from MAT 210, 211, 216, 310, 314, 316, 317, 319, 340, 341, 345, 347, 348, 349, 350, 351, 360, 361, 366, 368, 370.
- At least 18 of the 36 hours must be at the 200 level or above.

MAJOR IN MATHEMATICS EDUCATION

- MAT 211, 216, and 323 are required. The requirements for the major in Mathematics must be met. This major is part of the entitlement program leading to certification for secondary grades 6-12. (Note: MAT 211, 216, and C&I 200.03 or 215 or the equivalent are prerequisites for MAT 323. MAT 323 must be completed before the student teaching experience.)
- Students are encouraged to take electives from the list of Secondary Teaching courses above.
- Interested students should consult their adviser about opportunities for tutoring secondary school students, serving as a teaching assistant, or other relevant voluntary clinical experiences.

MINOR IN MATHEMATICS

- 24 hours in Mathematics required.
- Required courses: MAT 145, 146, 147, 175.
- At least 8 semester hours chosen from MAT 210, 211, 216, 310, 314, 316, 317, 319, 340, 341, 345, 347, 348, 349, 350, 351, 360, 361, 366, 368, 370.

MINOR IN MATHEMATICS EDUCATION

- 24 hours in Mathematics required.
- Required courses: MAT 145, 146, 147, 175, 211, 216, and 323. (Note: MAT 211, 216 and C&I 200.03 or 215 or the equivalent are prerequisites for MAT 323.)
- Students are encouraged to take electives from the list of Secondary Teaching courses above.

Honors in Mathematics: The department offers an honors program for undergraduate mathematics and mathematics education majors emphasizing a broad liberal arts program with requirements in mathematics and University Studies. Students interested in participating in the departmental honors program may secure further information by contacting the director of Mathematics Honors Program. The department also offers in-course honors for students enrolled in the University Honors Program.

COOP/Internship in Mathematics: The department offers a cooperative education/internship program for undergraduate mathematics majors which provides for practical work experience in business, government, or industry. Students interested in participating in the program may secure further information by contacting the Mathematics Cooperative Education/Internship Coordinator.

Concentration in Quantitative Economics: This program is available to students under the Comprehensive Arts and Sciences Major and under the Contract Major. Courses in this program should include ECO 100, 101, 131, 330, 331, 333, 340, and 341; MAT 145, 146, 147, 175, 350, and 351. Interested students may contact the department chairperson in either Mathematics or Economics.

Mathematics Courses

- A placement examination in mathematics is required of all entering freshmen.
- The minimum prerequisite for all mathematics courses is successful completion of first year high school algebra through quadratic equations.
- A year of high school geometry and a second year of high school algebra are highly recommended for anyone who wants to take mathematics courses.
- A grade of C or better is highly recommended in any course listed as a prerequisite to a course that a student intends to take. Students who fail to get at least a C in a prerequisite course are strongly encouraged to repeat the course prior to enrolling in the subsequent course.
- Students may not enroll in a course which is prerequisite to a course that has been completed with a grade of C or better.

103 FOUNDATION TOPICS IN MATHEMATICS 4 US-4 F.S

1 yr. H.S. Algebra req., 1 yr. H.S. Geometry rec. Not for cr maj/min or if had PHI 110.

Logic, axiomatics, sets, and numbers from common sense understandings. Precise language used but only with understanding. Growth of a mathematical theory.

105 APPLICATIONS OF ELEMENTARY MATHEMATICS 3 US-4 F.S

1 yr. HS Algebra req., 1 yr HS Geometry rec. Not for cr maj/min or if had MAT 120. Hand calculator req.

Problems in physical, biological and social sciences, business, politics, games and other fields solved by algebra, geometry, linear programming, probability, etc.

106 WORLD OF MATHEMATICS 4 US-4 F.S

1 yr HS Algebra req., 1 yr HS Geometry rec. Not for cr maj/min.

A survey of topics from contemporary mathematics such as: sets, games, number theory, geometry, logic, puzzles, infinity, networks, codes, computers, and their applications to other disciplines including music and art.

107 INTERMEDIATE ALGEBRA 3 F.S

1 yr HS algebra req., 1 yr HS Geometry rec. Not for cr maj/min or if had MAT 109. 3 hr lecture and testing-tutorial sections required.

Intermediate course between one year of high school algebra and college algebra.

108 TRIGONOMETRY 2 F.S

Competency test (MAT 107 content), 1 yr HS Geometry req. Not for cr maj/min or if had MAT 109. Hand calculator required.

109 MATHEMATICS FOR TECHNOLOGISTS 5 F.S

1 yr HS Geometry, competency test (HS Algebra I content) req. Not for cr maj/min or if had MAT 107 or 108. Hand calculator req.

Intermediate algebra and basic trigonometry with application in the technology fields.

110 COLLEGE ALGEBRA WITH TRIGONOMETRY 4 F.S

Competency test (MAT 107 and 108, or 109 content) req.

Designed especially to prepare for MAT 145. Hand calculator req.

Factorization theory; polynomial, radical, trig, exponential, and log equations; linear, polynomial and rational inequalities; graphing polynomial, rational, trig, exponential, and log functions; properties of trig and inverse trig functions.

120 FINITE MATHEMATICS FOR BUSINESS AND SOCIAL SCIENCES 4 US-4 F.S

Competency test (MAT 107 content) req. Not for cr maj/min. Hand calculator required.

Linear functions, matrices, systems of linear equations, linear programming, probability, statistics, and difference equations with applications.

121 INTRODUCTION TO CALCULUS FOR BUSINESS AND SOCIAL SCIENCES 4 US-4 F.S

MAT 120 and Competency test (MAT 107 content) req. Not for cr maj/min. Hand calculator required.

Non-linear functions, intuitive differential and integral calculus, applications.

145 CALCULUS I 4 US-4 F.S

Competency test (MAT 110 content) req. Formerly MAT 115.

Differentiation with associated applications. Curve sketching. Introduction to integration with applications.

146 CALCULUS II 4 US-4 F.S

MAT 145 req. Formerly MAT 116.

Calculus of the transcendental functions. Conic sections. Techniques of integration, polar coordinates, L'Hospital's rule, improper integrals, applications.

147 CALCULUS III 4 F.S

MAT 146. Formerly MAT 117.

Parametric equations in the plane with applications. Vector curves and surfaces in space. Partial derivatives, gradients, directional derivatives, and tangent planes. Multiple integration and line integrals. Infinite series and Taylor's Theorem.

151 STRUCTURE OF NUMBER SYSTEMS I 3 US-4 F.S

1 yr HS Algebra, basic skills competency req. 1 yr HS Geometry rec. Not for cr maj/min. Materials charge optional.

Properties of whole numbers and rational numbers; algorithms for the four basic operations. Elementary set theory, number theory, geometry, and measurement.

152 STRUCTURE OF NUMBER SYSTEMS II 3 S

MAT 151 or 3 yrs HS MAT including geometry req. Not for cr maj/min.

Continuation of MAT 151. Concepts and structure of real numbers. Number theory, probability, statistics, geometry, and topology.

164 FORTRAN PROGRAMMING 3 US-4F,S

Grade of C or better in MAT 107 or HS equiv req. Also offered as ACS 164. Materials charge optional.

An introduction to programming using the FORTRAN language including built-in functions, subprograms, and sequential and direct access file processing.

175 LINEAR ALGEBRA 4 F.S

MAT 147 or conc reg req.

Vector geometry, matrices, systems of linear equations, vector spaces, linear transformations, eigenvalues and eigenvectors, applications to the physical and social sciences.

201 MATHEMATICS FOR THE ELEMENTARY SCHOOL CHILD 3 F.S
MAT 151 or 152 req. Not for cr maj/min or if had C&I 252. Incl Clin Exp. Materials charge optional.

Background for meaningful teaching of number, numeration, basic facts, algorithms, and geometric concepts. Special emphasis on planning instruction for children with special learning needs.

202 MATHEMATICS FOR THE JUNIOR HIGH SCHOOL 2 S
MAT 151, 152 or 145 req. Not for cr maj/min. Materials charge optional.

Background for meaningful teaching of mathematical topics in the junior high school curriculum. Includes analysis of computational techniques for whole and rational numbers, number theory, measurement, and geometry.

203 MATHEMATICS FOR EARLY CHILDHOOD 3 F
MAT 151 or 152 req. Not for cr maj/min or if had C&I 262. Materials charge optional.

Study of appropriate mathematical experiences for young children including prenumber work, number and numeration, measurement, geometry, whole number operations, and problem solving.

204 GEOMETRY FOR ELEMENTARY TEACHERS 3 F.S
MAT 151 or 152 or 3 yrs. HS math including geometry req. Not for cr maj/min. Materials charge optional.

Geometry relevant to grades K-8. Logic, incidence, separation, congruence, parallelism, similarity, coordinate systems, measurement, and constructions.

205 MODERN ALGEBRA FOR ELEMENTARY TEACHERS 3 F.S
MAT 151 or 152 or 3 yrs. HS math including geometry req. Not for cr maj/min. Materials charge optional.

Algebraic concepts and structures relevant to grades K-8. Structure of familiar number systems compared to and contrasted with other mathematical systems.

210 SYMBOLIC LOGIC I 3 US-4 F
1 yr. HS Algebra, 1 yr HS Geometry req. Also offered as PHI 210.

Introduction to proof theory. Formal deductive systems, especially propositional logic and predicate logic. Properties of deductive systems, such as consistency and completeness.

211 EUCLIDEAN AND NON-EUCLIDEAN GEOMETRY 4 F
MAT 145 or MAT 204 rec.

Inductive and deductive study of Euclidean geometry; includes transformations, tessellations, polyhedra, classical theorems, introduction to non-Euclidean geometry.

212 SYMBOLIC LOGIC II 3 S
MAT/PHI 210 req. Also offered as PHI 212.

Study of axiomatic systems of various kinds; some set theory; proof theory and meta-theory.

216 INTRODUCTION TO ABSTRACT ALGEBRA I 4 F.S
MAT 175 req. Formerly MAT 315.

Introduction to rings, integral domains, and fields including the ring of integers, the fields of real and complex numbers, quotient rings, polynomial rings, homomorphisms, and ideals.

220 MATRIX ALGEBRA FOR BUSINESS AND SOCIAL SCIENCES 3 S
MAT 121 req. Not for cr maj/min.

Introduction to matrix algebra with applications to business and social sciences.

298 PROFESSIONAL PRACTICE: COOPERATIVE EDUCATION/INTERNSHIP IN MATHEMATICS 2-4 F.S. Summer
MAT 175 plus two approved courses in math beyond 175 and a GPA of 2.75 overall and 3.00 in math courses. May be repeated. Max 8 hours. May not be used for meeting the requirements of any of the undergraduate maj min math programs. Admissions approved by Dept Chair. Credit/no credit only.

Practical experience through professionally oriented work in business, government, or industry. One credit per month of full-time employment.

301 MATHEMATICAL TOPICS FOR ELEMENTARY TEACHERS 3 S
MAT 151 or 152 req. Not for cr maj/min. Incl Clin Exp. Materials charge optional.

Significant problems, viewpoints and trends in teaching of arithmetic. Research related to organization, content and techniques in this field.

302 MATHEMATICAL TOPICS FOR JUNIOR HIGH TEACHERS 2 F
MAT 151 or 152 or 145 req. MAT 202 or tchg exper rec. Not for cr maj/min. Materials charge optional.

Problems, viewpoints and trends in teaching junior high school mathematics. Implication of logic and foundations of mathematics for teaching in this field.

303 DIAGNOSIS AND REMEDIATION OF ELEMENTARY MATH LEARNING PROBLEMS 3 F.S
MAT 151 or 152 or teaching experience req. C&I 252 or MAT 201 or 202 rec. Not for cr maj/min. Incl Clin Exp. Materials charge optional.

Analysis of diagnostic and remediation procedures utilizing concrete materials for children experiencing difficulties in elementary school mathematics.

304 ADVANCED TOPICS IN ALGEBRA AND GEOMETRY FOR ELEMENTARY AND JUNIOR HIGH SCHOOL TEACHERS 3-S, Summer
MAT 152 or 204 or 205, and high school geometry req. Not for cr maj/min. Materials charge optional.

Topics resulting from merging of algebraic and geometric concepts and techniques, and applications of these concepts to the elementary and junior high school curricula.

305 MEASUREMENT TOPICS FOR ELEMENTARY AND JUNIOR HIGH SCHOOL TEACHERS 1-3 Summer
MAT 204 or tchg exp req. Not for cr maj/min. Materials charge optional.

Topics related to elementary and junior high school curricula. Metric systems, counting techniques, probability, sampling, statistical inference, simulation, similarity, indirect measurement techniques.

306 TEACHING ELEMENTARY AND JUNIOR HIGH SCHOOL MATH WITH CALCULATORS AND COMPUTERS 3 F.S., Summer
MAT 151 or equiv req. Not for cr maj/min. Materials charge optional.

Techniques for using calculators and microcomputers for mathematical concept and skill development and discovery of mathematics generalizations in elementary school.

307 MATHEMATICS FOR THE GIFTED IN THE ELEMENTARY AND JUNIOR HIGH SCHOOL 2-3 Summer
MAT 152 or 202 or tchg exp req. Not for cr maj/min. Materials charge optional.

Mathematics content, methods, and program design for meeting needs of students with high ability in mathematics.

308 MATHEMATICS FOR THE SLOW LEARNER IN THE ELEMENTARY AND JUNIOR HIGH SCHOOL 2 Summer
MAT 151 or tchg exp req. Not for cr maj/min. Materials charge optional.

Characteristics/causes of slow learners/underachievers in mathematics. Mathematics content, methods, materials and program design for meeting needs of slow learners.

310 NUMBER THEORY 3 F.S
MAT 175 or 205 req.

Divisibility, primes, unique factorization, numerical functions, congruences, Diophantine equations, other topics.

314 TOPICS IN GEOMETRY 3 F.S
Cons inst req. May be repeated if content different.

Study of selected areas of geometry. Topic .01 Affine and Euclidean geometry through linear algebra. (Formerly MAT 312: HIGHER GEOMETRY I); Topic .02 Projective geometry (Formerly MAT 313: HIGHER GEOMETRY II); Topic .03 Introduction to differential geometry (Formerly MAT 345). Consult the *Directory of Classes* for the topics to be offered during any given semester.

316 INTRODUCTION TO ABSTRACT ALGEBRA 3 F
MAT 175 req. MAT 216 rec.

Introduction to groups, including permutation, symmetry and matrix groups, homomorphisms, normality, quotient groups, applications.

317 LINEAR ALGEBRA 4 F
MAT 175 req.

Vector spaces, linear transformations and matrices, inner product spaces, eigenvalues and eigenvectors, Jordan canonical form. Applications to geometry, the physical and social sciences.

319 COMBINATORIAL TOPOLOGY 3
MAT 147 req. MAT 175 rec. Formerly MAT 375.

Introduction to algebraic topology. Topics include compactness and connectedness, continuous vector fields and critical points, plane homology, the Jordan Curve Theorem, and surfaces.

320 HISTORY OF MATHEMATICS TO 1600 2
MAT 145 rec.

Emphasis on Greek geometry, and growth of algebra and algebraic notation from early Mesopotamia through Renaissance.

321 HISTORY OF MATHEMATICS 1600 TO PRESENT 2
MAT 147 req.

Development of modern mathematics (analysis, algebra, geometry) and the people in the forefront, beginning with Descartes. Emphasis on 19th century.

323 MATHEMATICS FOR THE SECONDARY SCHOOL 3 S
MAT 211 and 216 or conc reg and C&I 200.03 (grade of C or better req.) or 215 req. Incl Clin Exp. Materials charge optional.

Problems in selection, placement and teaching of secondary mathematics topics. Language and symbolism. Analysis of recent trends and practices.

324 SEMINARS FOR STUDENT TEACHERS OF MATHEMATICS 2 S
Conc reg or completion of student teaching in mathematics req. Not for graduate credit.

Examination of materials and teaching aids for junior and

senior high school mathematics programs. Communication of student teaching practices, and learning theory, and experimental curricular projects.

326 COMPUTER-EXTENDED MATHEMATICS FOR SECONDARY SCHOOLS 3 F
Calculus and BASIC programming req. Formerly MAT 362.

Techniques of illustrating, deriving, and discovering mathematical concepts of the secondary curriculum by digital computer and calculators.

340 DIFFERENTIAL EQUATIONS I 3 F.S
MAT 147 and a programming language req. MAT 175 rec.

First-order differential equations, linear differential equations, systems of linear equations, numerical solutions.

341 DIFFERENTIAL EQUATIONS II 3 S
MAT 175 and 340 req.

Series solutions, Laplace transform, theory of first order equations, theory of linear differential equations, Sturm theory, Fourier series, boundary-value problems, introduction to partial differential equations (Laplace, heat; and wave equations).

345 ADVANCED CALCULUS 4 F
MAT 175 req. Formerly MAT 335.

Calculus of functions of several variables; Taylor's series of several variables, maxima and minima, Lagrange multipliers, inverse and implicit function theorems, multiple integration, line integrals, Green's and Stokes' theorems.

347 INTRODUCTION TO REAL ANALYSIS I 4 S
MAT 147 req. MAT 175 rec.

The real number system, topology of metric spaces, sequences, continuous functions, uniform convergence, differentiation, Taylor's Theorem, Riemann integration, the fundamental theorem of calculus, infinite series, power series, the implicit function theorem.

349 COMPLEX ANALYSIS I 3 S
MAT 147 req.

Analytic function theory, complex plane, differentiability and analyticity, Cauchy's theorem. Taylor series and Laurent series.

350 MATHEMATICAL STATISTICS I 4 F.S
MAT 147 or conc reg req.

Sample spaces, probability, random variables, probability density functions, moment generating functions, empirical distributions, sampling distribution theory, confidence intervals, maximum likelihood estimation, applications, use of MINITAB computer package.

351 MATHEMATICAL STATISTICS II 4 F.S
MAT 147 and 350 req.

Chi-square, F, t, and bivariate normal distributions, Central Limit Theorem, goodness-of-fit tests, correlation and regression, analysis of variance, randomized block designs, nonparametric methods.

356 STATISTICAL COMPUTING 4 S
Two statistics crses; some facility with matrices req.

The application of the SAS, SPSS, and BMDP programs to real data emphasizing regression, analysis of variance, discriminant analysis, and factor analysis.

360 COMBINATORIAL COMPUTING 4 S
MAT 175, MAT 164 or ACS 164 or 168 req.

Listing and ranking algorithms for permutations, recurrence relations, generating functions, graph theory, optimization, Polya's Theorem.

**361 TOPICS IN
DISCRETE MATHEMATICS 2-4 F.S**
*MAT 175 req. Each topic may be taken once. Formerly
MAT 325.*

Study of selected areas of discrete mathematics. Topic .01 Linear Programming; Topic .02 Game Theory; Topic .03 Graph Theory; Topic .04 Dynamic Programming. Consult the *Class Schedule* for the topics to be offered and the hours of credit to be earned during any given semester.

**366 BOOLEAN ALGEBRA AND
LOGICAL DESIGN 3**

MAT 175 or 220 rec.

Switching circuits, Boolean algebra as model for propositional calculus, logical design of digital computers, logical programming.

368 MATRIX THEORY 2

*MAT 175 or 220 and FORTRAN or PL/I req. Formerly
MAT 308 MATRIX THEORY.*

Computational theory of matrices, matrix operations, inversion, solution to linear systems, eigenvalues and eigenvectors.

370 NUMERICAL ANALYSIS 3

MAT 175 and Fortran or PL/I req.

Interpolation and approximation, error analysis, integration, techniques for solving differential equations, root finding.

390 INDEPENDENT STUDY 1-3

F.S

PHILOSOPHY (PHI)

351 Stevenson Hall

Chairperson: Kenton Machina.

Faculty: Professor: Kennard. Associate Professors: G. Davis, Gorr, Machina. Assistant Professors: Andrade, M. Davis, Deutsch, Gowen, Rosenbaum, S. Trianosky-Stillwell.

Philosophy Programs

Degrees Offered: B.A., B.S.

MAJOR IN PHILOSOPHY

— 27 hours in Philosophy.

— Required PHI courses by area; Logic: PHI 110 or 210; History of Philosophy: PHI 254 and 255; Ethics: PHI 232; Epistemology and Metaphysics: PHI 361 and 362; at least two additional courses at the 200 or 300 level with at least one of these elective courses at the 300 level.

Each major works out a coherent program of supporting courses tailored to the student's needs in consultation with a faculty adviser.

MINOR IN PHILOSOPHY

— 18 hours in Philosophy required.

— Required PHI courses by area: Logic: PHI 110 or 210; History of Philosophy: PHI 254 and 255; at least 9 additional hours in PHI.

— Not more than two 100 level courses may count for the minor.

MINOR IN PHILOSOPHY EDUCATION

— 21 hours in Philosophy required.

— Required PHI courses by area: Logic: PHI 110 or 210; History of Philosophy: PHI 254 and 255; Ethics: PHI 232 or 240 or 242; Epistemology or Metaphysics: PHI 361 or 362;

at least 6 additional hours in PHI with at least one 200 or 300 level course.

Notes on Philosophy Programs: Students wishing to minor in Philosophy are requested to inform the department of their intention and are invited to discuss their program with an adviser in the Department of Philosophy.

Philosophy Courses

Freshmen wishing to select a Philosophy course normally should enroll in a 100-level course. Other students may begin with any 100 or 200-level course. Courses at the 300 level presuppose at least the level of sophistication that the successful completion of one or more lower level courses in Philosophy would demonstrate.

101 BASIC ISSUES IN

PHILOSOPHY 3 US-2

F.S

An introduction to traditional philosophical issues, e.g., knowledge, reality, freedom, God, and morality.

110 THINKING LOGICALLY 3 US-4

F.S

Not for credit if had MAT 103.

Principles and techniques of correct reasoning and logical thinking.

120 PHILOSOPHY OF

RELIGION 3 US-2

F.S

Evaluation of the evidence for certain basic religious beliefs concerning the existence of God, the occurrence of miracles, evil, religious experience, faith, and other related topics.

138 MORAL AND

SOCIAL VALUES 3 US-2

F.S

Examination of current social issues — e.g., abortion, and capital punishment — in light of differing views concerning moral and social principles.

**150 PHILOSOPHY AND
THE SCIENCES 3**

An introduction to the structure and historical development of scientific methodology and comparison of this methodology with pseudo-scientific practice.

203 EXISTENTIALISM 3

Examination of existentialist themes — such as absurdity, authenticity, freedom, meaninglessness, alienation, and subjectivity — and their relevance to 20th century society.

207 ORIENTAL PHILOSOPHY 3 US-8 F.S

An examination of the philosophical traditions of the Orient.

210 SYMBOLIC LOGIC I 3 US-4 F

Also offered as MAT 210. 1 yr. HS algebra; 1 yr HS geometry.

Introduction to proof theory. Formal deductive systems, especially propositional logic and predicate logic. Properties of deductive systems, such as consistency and completeness.

212 SYMBOLIC LOGIC II 3

MAT/PHI 210 req. Also offered as MAT 212.

Study of axiomatic systems of various kinds; some set theory; proof theory and meta-theory.

220 RELIGION, REASON

AND FAITH 3

F

Examination of the respective roles of reason and faith in religious belief systems. How do we decide which religion — if any — to accept?

232 ETHICS 3 US-2

F.S

Examination of major thinkers. Discussion of problems

concerning value, obligation, virtue, moral justification and moral standards.

234 BUSINESS ETHICS 3 US-7 F.S
Formerly PHI 139.

A philosophical examination of selected ethical issues in business practice including discussions of case material, such as personnel management, advertising, labor-management relations, and corporate responsibility.

235 MEDICAL ETHICS 3
 Ethical problems raised by developments in medicine and biology, such as medical paternalism, euthanasia, and the use of technology to maintain minimum life processes, genetic and medical experimentation.

239 PHILOSOPHY AND THE ARTS 3 F

Philosophical analysis of various concepts of interpreting, criticizing, and appreciating art. Consideration of the distinguishing characteristics of art.

240 POLITICAL PHILOSOPHY 3 US-2 S

Discussion of traditional and contemporary issues, e.g., human rights, theories of justice, Marxism, civil disobedience, punishment, and the end and limit of government.

242 PHILOSOPHY OF LAW 3 US-2 F

One PHI course or a law-related course rec.

Evaluation of conflicting views concerning the nature of law, legal obligation, legal rights, and the justification of punishment.

244 LEGAL ETHICS 3 S

One PHI course or one law-related course rec. Materials charge optional.

Analysis of ethical issues arising in practice of law, maintenance of legal profession, and social decisions concerning provision of legal services.

246 PHILOSOPHICAL ISSUES IN FEMINISM 3 F

A thorough examination of some significant philosophical presuppositions concerning equality, freedom, personhood, justice, and related topics within contemporary feminism.

250 PHILOSOPHY OF SCIENCE 3 S

The nature of scientific theories, methods, reasoning, hypotheses, laws, and explanations.

253 PHILOSOPHY AND THE BEHAVIORAL SCIENCES 3 F

Examination of philosophical issues raised by and relevant to the scientific study of human behavior.

254 ANCIENT AND MEDIEVAL PHILOSOPHY 3 US-2 F

Classic western philosophical ideas from the earliest times to the 15th century. The pre-Socratics, Socrates, Plato, Aristotle, Augustine, Aquinas, and others.

255 MODERN PHILOSOPHY 3 US-2 S

Formerly SEVENTEENTH AND EIGHTEENTH CENTURY PHILOSOPHY.

Classic western philosophical ideas of the 17th and 18th century. Hobbes, Descartes, Spinoza, Leibniz, Locke, Berkeley, Hume, and Kant.

305 TWENTIETH CENTURY PHILOSOPHY 3

One PHI course.

Examination of major philosophical movements of the 20th century, focusing on representative figures.

330 VALUE THEORY 3

Two PHI courses rec.

Examination of meaning and justification of value judgments. Problems concerning moral objectivity, the fact-value gap, the possibility of moral knowledge.

350 TOPICS IN THE HISTORY OF PHILOSOPHY 3

PHI 254 or 255. May be repeated.

Intensive examination of some major figure or movement in the history of philosophy such as Plato, Kant, or British Empiricism.

361 THEORY OF KNOWLEDGE 3 F

Two PHI courses.

Classic and contemporary theories of knowledge. Problems of meaning, truth, certainty, a priori knowledge, induction, and perception.

362 METAPHYSICS 3 S

Two PHI courses.

Classic and contemporary metaphysical theories. Problems of substance, change, universals, time, space, mechanism, teleology, and freedom.

390 INDEPENDENT STUDY 1-3

One PHI course, cons inst and dept chair.

PHYSICS (PHY)

311 Moulton Hall

Chairperson: Harold J. Born.

Faculty: Professors: Born, Crew, Frahm, Schroeer, Young. Associate Professors: Jesse, Luther. Assistant Professors: Edwards, Greenseeth, Grube, Sane, Warren, Wenning. Instructor: Sparks.

Physics Programs

Degrees Offered: B.S.

The undergraduate program in physics at Illinois State is sufficiently flexible to meet the needs of students with one or more of the following goals: (1) continued education in one of the allied fields such as astronomy, engineering, meteorology or oceanography; (2) teaching of physics or physical science; (3) industrial or governmental employment (research, development, and engineering); (4) liberal arts background for medicine, the allied health professions; patent law, technical sales, or industrial management; (5) continued study in physics at the graduate level; and (6) education for an increasingly technical society. Students are strongly encouraged to select those courses which are consistent with their goals and should consult with their academic advisers in planning an appropriate program.

MAJOR IN PHYSICS

— 37 hours in Physics required.

— Required courses: PHY 110, 111, 220, 225, 230, 240, 252, 270 (3 hours); 9 hours of 300-level PHY courses; CHE 140 and 141 (or 150) also required for the major.

MAJOR IN PHYSICS EDUCATION

— 36 hours in Physics required. Part of entitlement program leading to certification: secondary 6-12.

— Required courses: PHY 101, 110, 111, 220, 240, 252, 270 (3 hrs), 301 (4 hrs); electives must be chosen from 200 level or above PHY courses; CHE 140 and 141 (or 150) also required for this major.

MINOR IN PHYSICS

- 23 hours in Physics required.
- Required courses: PHY 110, 111, 252.

MINOR IN PHYSICS EDUCATION

- 23 hours in Physics required.
- Required courses: PHY 110, 111, 252, 270 (1 hr).

Physics Courses**100 ENERGY AND ENVIRONMENT 3 US-3**

No science background required.

Scientific and technological aspects of social problems, emphasizing the energy crisis and related issues.

101 INTRODUCTION TO ASTRONOMY 3 US-3

No science background required.

Basic astronomy and recent developments in astronomy, including space travel, stellar evolution and cosmology.

102 ASTRONOMY LABORATORY 1

PHY 101 req.

Optional lab to complement and extend concepts developed in PHY 101.

103 PHYSICS OF SOUND SYSTEMS 3 F.S

No science background req. Not for credit PHY maj min.

Wave motion, sound level, electricity, high fidelity stereo amplifiers, amplifier distortion, microphones, loud speakers, disc and tape recording, and room acoustics.

105 FUNDAMENTALS OF PHYSICS 4 US-3

HS Algebra or MAT 107 req. Not for credit if had PHY 108, 110 or equiv. For non-science maj. Lecture and laboratory.

Applications of the principles of physics to everyday living.

108 GENERAL PHYSICS I 5 US-3 F.S

2 sem HS Algebra or equiv req. Not for credit if had PHY 110 or equiv. Lecture and laboratory. First sem of a two-sem sequence.

Mechanics, wave motion, sound, heat.

109 GENERAL PHYSICS II 5 US-3 F.S

PHY 108 req. Not for credit if had PHY 111 or equiv. Lecture and laboratory. Continuation of PHY 108.

Magnetism, electricity, optics, and radiation.

110 PHYSICS I 5 US-3 F.S

MAT 145 or conc reg. req. Not for credit if had PHY 108 or equiv. Lecture and laboratory.

Same as PHY 108 using concepts of calculus.

111 PHYSICS II 5 US-3 F.S

PHY 110 and MAT 146 or conc reg. req. Not for credit if had PHY 109 or equiv. Continuation of PHY 110.

201 MODERN ASTRONOMY 3

PHY 101 and HS Algebra req. Not for credit maj min in PHY.

Student-selected topics examined in light of related physical laws. Results of current space programs.

220 INTERMEDIATE MECHANICS 3 F

PHY 109 or 111 and MAT 147 or conc reg req.

Particle kinematics and dynamics, oscillations, central force motion, rigid body dynamics.

225 THERMAL PHYSICS 3 S

PHY 109 or 111 and MAT 147 or conc reg req.

Thermodynamics, kinetic theory and statistical mechanics

with applications to physics, chemistry, biology and engineering.

230 OPTICAL PHYSICS 3 S

PHY 109 or 111 and MAT 147 or conc reg req.

Optical systems, wave motion, interference and diffraction, electromagnetic waves.

240 INTERMEDIATE ELECTRICITY AND MAGNETISM 3 F

PHY 109 or 111 and MAT 147 or conc reg req.

Electrostatics, electric and magnetic fields, AC and DC circuits, Maxwell's equations.

252 MODERN PHYSICS 3 F

PHY 109 or 111 and MAT 147 or conc reg req.

Atomic and molecular physics; introduction to relativity, quantum theory and solid state physics.

270 ADVANCED LABORATORY IN PHYSICS 1-2 F.S

Six hours of 200-level PHY theory courses req. May be repeated. Max 4 hrs.

Use of precision instruments and performance of fundamental experiments.

290 RESEARCH IN PHYSICS 1-3 F.S

20 hrs PHY req. May be repeated. Max 3 hrs. 3 hrs conference, laboratory or library research per week for each hr of credit.

Development of better understanding of significance of research in physics through study of a research problem.

301 PROBLEMS IN THE TEACHING OF HIGH SCHOOL PHYSICS 3-4 F.S

16 hrs in PHY and C&I 200 (6 hrs) or 200.03 (grade of C or better req.) or 215 (2 hrs) or conc reg. req. For teaching majors only. Includes observation and clinical experiences for 4 hours credit.

Modern methods and problems confronting teachers of high school physics.

315 ASTROPHYSICS 3 S

PHY 225 and 230 req.

Planetary and stellar astronomy; structure and evolution of stars and galaxies; cosmology.

320 MECHANICS 3 F

PHY 220 and MAT 340 req.

Transformations of coordinate systems; oscillations; calculus of variations; Lagrangian and Hamiltonian dynamics; rigid body dynamics.

340 ELECTRICITY AND MAGNETISM 3 S

PHY 240 and MAT 340 req.

Boundary value problems in electro and magnetostatics; Maxwell's equations; electromagnetic waves and radiation.

355 MOLECULAR AND SOLID STATE PHYSICS 3 S

PHY 252, 225 req.

Introduction to the spatial, dynamic and electric properties of condensed matter.

360 NUCLEAR PHYSICS 3 S

PHY 252 req. Graduate credit available only if approved by student's maj dept prior to enrollment.

Basic nuclear properties; radioactivity; low energy nuclear reactions; interaction of particles and radiation with matter; nuclear models.

375 ELECTRONICS FOR SCIENTISTS 3 S

PHY 109 or equiv.

The operation and design of electronic circuits and electronic instruments.

382 RELATIVITY 3 F
PHY 252 req. Earned grades of A or B in PHY 220 and 240 req.

Relativistic mechanics, optics and electrodynamics. Tensors and introduction to general relativity including the Schwarzschild solution and gravitational waves.

384 QUANTUM MECHANICS 3 F
PHY 252 and MAT 340 req. Earned grades of A or B in PHY 220 and 240 req.

Mathematical formulation of quantum theory and applications to simple systems.

385 ATOMIC PHYSICS 3 S
PHY 384 and cons instr req.

Application of quantum theory to atomic systems including angular momentum theory, atomic structure and atomic transitions.

387 METHODS OF MATHEMATICAL PHYSICS 3 S

Earned grades of A or B in PHY 220 and 240 req.

Vector calculus; partial differential equations of science and engineering; Fourier series and integrals; complex variables.

388 PHYSICS AND COMPUTERS 3 F
MAT 146, 164 (FORTRAN), PHY 109 or 111 req.

Solution of physics problems by computer. Problems include electric circuits, classical and quantum waves, Monte Carlo techniques, data analysis.

POLITICAL SCIENCE (POS)

306 Schroeder Hall

Chairperson: Hibbert R. Roberts.

Faculty: Professors: Kohn, Monroe, H. Roberts, Verner, Zeidenstein. Associate Professors: Chinn, Eimermann, Elder, Gordon, Gueguen, Hunt, Kiser, Mead, Payne, Wilson. Assistant Professors: Bradley, Cavey, Gardner, Hartwig, Kirkwood, Klass, Nassar, Pope, F. Roberts.

Political Science Programs

Degrees Offered: B.A., B.S.

The Political Science program provides students with a broad liberal education and at the same time offers opportunities to begin a specialized concentration in one area of the discipline such as public service or global studies. The study of political science leads into a number of careers in areas such as law and paralegal services; local, state, and federal government; international public and private organizations; teaching and research; business; and various public services. Career information, including information about career-related courses offered by other departments, is available from the department's undergraduate adviser. Teacher education students majoring in Political Science fulfill professional education requirements through the social science program.

MAJOR IN POLITICAL SCIENCE

- 30 hours in Political Science required and an additional 18 hours in related fields.
- Required courses: POS 105, 109; at least 3 hours in 4 of the 5 areas of (1) Political Philosophy, Theory, and Methodology, (2) American Politics, (3) Comparative Politics, (4) International Relations, and (5) Public Law and

Public Administration; at least 18 hours selected from cognate courses offered in at least two of the following departments: Anthropology, Economics, Geography, History, Philosophy, Psychology, and Sociology. POS 105 and 109 are required, but do not count toward the hours required in areas 1 and 2.

MINOR IN POLITICAL SCIENCE

- 18 hours in Political Science required.
- Required courses: POS 105, 109.

MINOR IN POLITICAL SCIENCE EDUCATION

- Program requirements are the same as those listed for the Minor in Political Science.

Honors in Political Science: Students majoring or minoring in Political Science may be admitted to the departmental honors program if they have: 1. completed at least 30 semester hours of college or university level courses, including at least two political science courses; 2. a minimum of three semesters remaining before graduation; 3. a cumulative grade point average of 3.3; 4. two letters of recommendation submitted from faculty members to the department chairperson and 5. admission approval from the departmental honors committee.

In order to graduate with Honors in Political Science a student must complete: 1. all regular requirements for the Political Science major; 2. 3 hours of in-course honors; 3. 3 hours in POS 389: Honors Colloquium; 4. 3 hours of either POS 299: Independent Honors Study or a departmental senior seminar; and 5. must have at the time of graduation a cumulative G.P.A. of at least 3.3 and a G.P.A. of at least 3.5 in political science.

Any student admitted to the University Honors program may earn honors credit by completing the honors requirements of either a designated honors course or of a course offering an in-course honors option.

Legal Studies Program

No major offered. Further information: Dr. Thomas Eimermann, Coordinator of Legal Studies, 371 Schroeder Hall.

The Legal Studies program offers an interdisciplinary curriculum designed to provide knowledge and skills related to various types of paralegal careers. This program may not be appropriate for pre-law students. While a major is not offered, interested students should consult the Legal Studies Coordinator about the possibility of an individualized Contract Major. Students wishing to minor in Legal Studies must petition for admission to the Coordinator of Legal Studies following the completion of 30 semester hours of coursework.

MINOR IN LEGAL STUDIES

- 21 hours required.
- Required courses (12 hours): FAL 210, 211; POS 215, 281.
- Elective courses (9 hours selected from among the following Legal Studies specialization courses): ACC 333, 334; BEA 355; CJS 206, 304, 305, 306; FAL 260, 311; POS 216, 314, 317, 318, 319, 320, 322, 325, 326, 327, 389 (Real Estate Law for Paralegals), 391.

Political Science Courses

In meeting program requirements in Political Science, the student should note that the courses are contained in areas, as follows:

1. Political Philosophy, Theory, and Methodology, 262, 263, 264, 265, 313, 362, 364.
2. American Politics: 211, 213, 215, 217, 220, 221, 222, 223, 224, 310, 312.
3. Comparative Politics: 141, 145, 241, 242, 244, 245, 246, 247, 306, 345, 347.
4. International Relations: 151, 251, 252, 253, 254, 293, 344, 351, 354, 356.
5. Public Law and Public Administration: 231, 232, 281, 317, 318, 325, 326, 327, 329, 330, 331, 332, 390, 391.

Political Science courses not listed under an area count as electives toward the major and minor credit hours requirement. Students should consult the department adviser to learn which selected studies (189, 289, 389) courses may satisfy area requirements.

105 AMERICAN GOVERNMENT AND POLITICS 3 US-5 F.S

Surveys the entire U.S. political process, concentrating on the national level. Includes Constitutional structure, patterns of behavior, and policy-making institutions.

109 INTRODUCTION TO POLITICAL INQUIRY 3 F.S
POS 105 rec.

Acquaints the beginning student with major issues, systematic approaches, and research techniques involved in the study of politics.

141 COMPARATIVE EUROPEAN GOVERNMENT 3 US-5 F.S

Structure, function, and political processes of European governments. Emphasis on Britain, Soviet Union, France, and West Germany.

145 INTRODUCTION TO NON-WESTERN POLITICS 3 US-8 F.S

An introductory examination of the politics of non-western countries and their significance to the United States and the global system.

151 INTRODUCTION TO INTERNATIONAL RELATIONS 3 US-5 F.S

Emphasizes understanding the behavior and characteristics of nation-states and issues affecting their relations with each other.

211 AMERICAN POLITICAL PARTIES 3

A contemporary description and appraisal of four elements of parties: organization, voters, parties in elections, and parties in government.

213 CONGRESSIONAL POLITICS 3

Major congressional institutions and proposals for their reform, primarily through play of classroom game-simulations.

215 AMERICAN JUDICIAL PROCESS 3

Introduction to the major elements of the judicial system: police, lawyers, juries, and judges. Concentrates on organization and behavior. (A Legal Studies required course.)

217 AMERICAN PRESIDENCY 3

The presidency is examined pre-eminently as an office of political influence, decision-making, and policy implementation.

220 CAMPAIGN POLITICS 3

Consideration of campaign planning, management, and activities through reading, discussion, and supervised student campaign participation. Ordinarily scheduled to coincide with primary and general election years.

221 AMERICAN STATE AND LOCAL GOVERNMENT 3

Structures and functions of state and local governments. Includes discussion of comparative state and local politics and policy outputs.

222 URBAN POLITICS AND PROBLEMS 3

A systems analysis of the processes and interactions of the environmental, social, economic, and power components of urban political systems.

223 BLACK POLITICS 3

A wide-ranging examination of the political activities of Black Americans, with emphasis on the present. Topics include interest group activities, voting and elections, confrontation, leadership, ideology formation, and government policy.

224 INTEREST GROUP POLITICS 3

Investigation of interest group membership, organization, and lobbying activities within the context of the competing theories of group influence.

231 PUBLIC ADMINISTRATION 3

Mission, structure, function, politics, and public policy development of public administration, including parameters of public finance and personnel.

232 POLITICS AND PUBLIC POLICY 3 US-5

Introduction to the political processes of public policy formation, including theories, and an analysis and evaluation of selected policy areas.

241 BRITISH GOVERNMENT 3

Intensive study of the structure and process of the government of Britain and its political process.

242 SOVIET GOVERNMENT AND POLITICS 3

A study of how the Soviet system works—its strengths, weaknesses and prospects. Both Soviet and western perspectives are discussed.

244 POLITICS OF DEVELOPING AREAS 3

Analysis of the political systems of newly industrializing societies — primarily of Asia, but also of Latin America and Africa.

245 REVOLUTIONARY LEADERSHIP 3

May be repeated if content different.

Investigation of the role of revolutionary leaders in the independence movements and political development of emerging nations.

246 AFRICAN POLITICS 3 US-8

Comparative analysis of African political systems, including such contemporary problems as the politics of race, nation building, and economic development.

247 POLITICS OF THE MIDDLE EAST 3 US-8 F.S

Comparative analysis of the political systems of selected Middle Eastern states and of region-wide issues including nationalism, revolution, and conflicts.

251 INTERNATIONAL RELATIONS 3

Presentation of various approaches employed to study international politics, and an analysis of problems and prospects of the contemporary world.

252 INTERNATIONAL ORGANIZATIONS 3

Cons Inst.

Introduction to the role of international organizations in world affairs. Preparation for MUN.

253 FOREIGN POLICIES OF MAJOR POWERS 3

A comparative analysis of the objectives, formulation, and implementation of foreign policies of the U.S., U.S.S.R., China, and other powers.

254 GLOBAL ISSUES 3 US-5 F.S

Study of transnational political interactions and behavior of global actors and their impact upon crucial socio-economic, technological and cultural issues.

262 MODERN POLITICAL PHILOSOPHY 3

Introduction to political philosophy emphasizing the methods and theories of selected European thinkers from Machiavelli through Marx.

263 COMMUNIST POLITICAL THOUGHT 3

A critical analysis of Marxist theory, its origins, development, and ideological significance.

264 PERSONALITY AND POLITICS 3

Introductory consideration of psychological factors useful for the analysis of political behavior.

265 TOPICS IN AMERICAN POLITICAL THOUGHT 3

May be repeated if content different.

Analysis and evaluation of major writings that proceed from or comment upon the American political experience.

306 REGIONAL AND AREA STUDIES 1-9

Cons inst. Usually given cooperatively with other departments.

Intensive study of particular lands, environments, cultures, and peoples.

310 VOTING AND ELECTIONS 3

Intensive investigation of U.S. voting behavior and electoral process; includes instruction in analysis techniques.

312 PUBLIC OPINION 3

POS 105 or SAS 106.

Includes attention to social and psychological bases of public opinion, current trends, methods of measurement, and opinion-policy linkages.

313 COLLECTIVE DECISION-MAKING 3

Game theory approach to decision-making in large groups, including legislatures, unions, oligopolies, bureaucratic organizations, and international negotiations.

318 ADMINISTRATIVE LAW 3

An overview of administrative law topics such as legislative, executive, and judicial control of administrative actions, public and private access to information, the administrative hearing process and other due process concerns. (A Legal Studies specialization course.)

325 CONSTITUTIONAL LAW: FUNCTIONS AND POWERS 3

Formerly POS 315.

Major Supreme Court decisions on federalism, separation of powers, taxation, commerce, voting, and citizenship. (A Legal Studies specialization course.)

326 CONSTITUTIONAL LAW: DUE PROCESS RIGHTS 3

Not for credit if had former POS 316.

An examination of major Supreme Court decisions involving both procedural and substantive due process rights.

327 CONSTITUTIONAL LAW: EQUALITY AND FREE EXPRESSION 3

Not for credit if had former POS 316.

An examination of major Supreme Court decisions involving discrimination, and freedom of speech, press, assembly, and religion.

329 INTERGOVERNMENTAL RELATIONS 3

Federalism in theory and practice, focusing on U.S. politics and policy in intergovernmental contexts; recent initiatives and current problems.

330 PROBLEMS OF PUBLIC ADMINISTRATION 3

May be repeated if content different.

Varied approaches to problems relevant to public policy, organization development, management, staff, or personnel concerns, and applied behavioral techniques.

331 PUBLIC PERSONNEL ADMINISTRATION 3

The personnel process in American bureaucracy; matching the individual and the job; employer-employee relations; employee motivation; problems and prospects.

332 PUBLIC POLICY ANALYSIS 3

May be repeated if content different.

Comparative policy research; an assessment of factors affecting policy formation and approach to evaluation of consequences of specific domestic public programs.

344 TOPICS IN GLOBAL STUDIES 3

May be repeated if content different.

To provide an intensive review and analysis of critical global problems and strategies for dealing with them.

345 ASIAN POLITICS 3

May be repeated if content different.

Comparative studies in the government and politics of selected Asian nations.

347 LATIN AMERICAN POLITICS 3 US-8

May be repeated if content different.

Politics of development and regional integration in South and Central America, using selected countries as examples.

351 INTERNATIONAL LAW 3

Political nature, legal principles, and juridical procedures and cases of contemporary international law.

354 SOVIET FOREIGN POLICY 3

A study of the strengths and weaknesses of Soviet foreign policy. Focuses on the foreign policy decision-making system, on intentions and capabilities.

356 AMERICAN FOREIGN POLICY 3

An analysis of the formulation, implementation, and content of American foreign policy.

362 CLASSICAL POLITICAL PHILOSOPHY 3

May be repeated if content different.

Introduction to the origin and development of inquiry about human life in political association with particular reference to ancient and medieval philosophers from Socrates through Dante.

364 CONTEMPORARY POLITICAL THOUGHT 3

Survey of major political theories between the end of the 19th century (since Marx) and the present.

**390 PUBLIC SERVICE
INTERNSHIP 1-6****F.S**

Max 6 hrs. POS maj; max 3 hrs. POS min. Complete dept internship application procedure.

Planned, supervised experience in a governmental or community organization, providing on-the-job training and introduction to public service careers.

Legal Studies Courses

The following courses are designed for the Legal Studies program. Except for POS 281, 317, and 391, these courses may not be counted for credit toward a POS major or minor.

216 INTRODUCTION TO TORTS 3 S

Not for credit POS maj min.

An introduction to the fundamental concepts of tort law. Topics include intentional and unintentional wrongs, varieties of liability and courses of action.

**281 INTRODUCTION TO
PARALEGALISM 3 F.S**

Cons inst. Formerly POS 381.

An introduction of the role of paralegals in the legal system with an emphasis on the development of legal research skills.

314 INVESTIGATIVE TECHNIQUES 3 S

POS 216. Not for credit POS maj min. Undergrad credit only.

An analysis of techniques for the gathering and preparation of evidence for use in legal disputes.

317 POVERTY LAW 3 F.S

Undergrad credit only.

An examination of political and legal responses to the problems of the poor. Major legal innovations in landlord-tenant, consumer, and welfare rights are studied.

319 PROBATE LAW 3 F

Not for credit POS maj min. Undergrad credit only.

Materials charge optional.

An introduction to the fundamentals of probate law with emphasis on tasks which can be performed by paralegals.

**320 CIVIL TRIAL AND
APPELLATE PRACTICE 3 S**

POS 281. Not for credit POS maj min. Undergrad credit only.

An analysis of the stages of a civil law suit from filing to judgment and appellate review. Special attention will be paid to those functions which can be performed by paralegals.

322 DOMESTIC RELATIONS LAW 3 F

Not for credit POS maj min. Undergrad credit only.

An overview of the laws and procedures governing legal aspects of marriage and child custody. Emphasis is placed on tasks which can be performed by paralegals.

391 PARALEGAL INTERNSHIP 1-6 F.S

POS 281. May be repeated. Max 6 hrs POS maj; max 3 hrs POS min. Complete departmental internship application procedure.

The course provides field experience for students working in internships involving paralegal skills.

PSYCHOLOGY (PSY)

435 DeGarmo Hall

Chairperson: Macon L. Williams.

Faculty: Professors: Berk, Cashen, Crist, Friedhoff, Gamsky, Gnagyey, Hogan, Johnson, Lamb, Lemke, Ramseyer, Vernon. Associate Professors: R. Bergner, Carrington, Chesebro, Goebel, Goldstein, Graybill, Grupe, House, Kornblith, Leicht, Lewis, Moore, Redding, Reeder, Rumery, Schmaltz, Swerdlik, Volle, Williams. Assistant Professors: Barnett, Baum, L. Bergner, Binning, Hardwick, Harris, Hecht, Hutter, Jarvis, McCabe, McCormick, Pfost, Presser, Sodetz, Stevens, Waimon.

Psychology Programs

Degrees Offered: B.A., B.S.

MAJOR IN PSYCHOLOGY

- 36 hours in Psychology required.
- Required courses: PSY 111, 231, 240, 331, 392.
- All majors are required to take four of the following courses: PSY 301 or 302 or 303 (one only can fulfill requirement); 320, 334, 350, 360, 361, 363, 364, 365. Not more than 12 hours of 100 level PSY courses or courses transferred from community colleges may count toward the major.
- Students who major in Psychology must complete the following courses or equivalents: ENG 101, 145; MAT 110 and 115 or 120 and 121; two laboratory courses in BSC, CHE or PHY; at least one course from PHI 101, 110, 232, 250, 253.

Concentrations: The department has delineated various concentrations that can be useful in planning the student's total academic program at Illinois State. Although not prescribed or required, the advisement plans for the concentrations are useful for students who have some idea which careers they wish to pursue after graduation. The areas of concentration are: General (an area designed for students who wish to enroll in courses representing a broader range of content), Social Service, Business and Industrial, Graduate (designed for students anticipating graduate study in Psychology). Majors should seek more information about the concentrations from the department academic advisers.

MINOR IN PSYCHOLOGY

- 21 hours in Psychology required.
- Required courses: PSY 111, 231, 240.

MINOR IN PSYCHOLOGY EDUCATION

- Program requirements are the same as those listed for the Minor in Psychology.

Honors in Psychology: The department offers honors work for superior students majoring in Psychology. In order to qualify the student must have achieved senior standing at the University, have achieved a university GPA of 3.30 or better and have a GPA of 3.50 or better in PSY course work. Finally, the student must complete a senior thesis (worth at least 3 semester hours credit and registered for PSY 299-Independent Honors Study) that satisfies the usual canons of scholarship. The student completing the program may choose to present the thesis at an Honors Colloquium.

Psychology Courses**111 GENERAL
PSYCHOLOGY 3 US-5 F.S**

Students may be expected to participate in experiments.

Introduction to the discipline of psychology as the scientific study of behavior with emphasis on general principles.

112 CHILD AND ADOLESCENT DEVELOPMENT 3 US-5 F.S
PSY 111 req. Not for credit maj or if had PSY 301, 302 or C&I 210.

Physical, social, emotional and mental development of the child from conception through adolescence.

123 HUMAN SEXUALITY 3 F.S
SAS 106 or PSY 111 req. Not for credit if had SAS 123.

Basic psychological, socio-cultural, and physiological elements of human sexuality.

131 SOCIAL PSYCHOLOGY 3 US-5 F.S
PSY 111 or SAS 106 req. Not for credit if had SAS 131.

Scientific study of behavior as influenced by other individuals; communication, motivation, differential social and cultural factors in personality; social interaction.

215 EDUCATIONAL PSYCHOLOGY 3 F.S
PSY 111 req. Designed for prospective high school teachers. Incl Clin Exp.

Application of psychology to education covering human learning in school setting; evaluation and measurement of learning outcomes, developmental factors and learning, and social factors of learning.

230 BUSINESS AND INDUSTRIAL PSYCHOLOGY 3 F.S
PSY 111 req.

Behavioral factors related to business and industry. Personnel practices, individual-group interaction, leadership and morale, fatigue and safety and consumer behavior.

231 EXPERIMENTAL PSYCHOLOGY 3 F.S
PSY 111 req. Conc reg in PSY 240 rec.

Philosophy of science and inquiry with emphasis on experimental methodology and some application of principles through laboratory experimentation and demonstration.

232 PERSONALITY 3 US-5 F.S
PSY 111 req.

Representative personality theories and how they interact in today's society with normal and pathological patterns and the modification of these patterns.

234 INTRODUCTION TO PSYCHOLOGICAL TESTING 3 F.S
PSY 111 req; not for cr maj.

Survey of psychological tests and testing principles with applications to the Special Education classrooms.

240 STATISTICS I 3 F.S
PSY 111 or SAS 106 req. Mat 110 or 120. Not for credit if had SAS 240, 340 or C&I 340.

Application and interpretation of basic statistics used in the behavioral sciences: descriptive statistics, simple hypothesis testing and two-variable regression.

290 SPECIAL PROJECTS 1-3 F.S
Cons dept chair and inst.

Majors in psychology can pursue areas of special interest independently and/or work on special projects. Community as well as University facilities are available.

301 DEVELOPMENTAL PSYCHOLOGY OF CHILDHOOD 3 F.S
PSY 111 req.

Motor, cognitive, and emotional development and personality growth of children, birth through pre-adolescence.

302 DEVELOPMENTAL PSYCHOLOGY OF ADOLESCENCE 3 F.S
PSY 111 req.

Motor, cognitive, and emotional development and personality growth of the adolescent.

303 ADULT DEVELOPMENT AND AGING 3 F.S
PSY 111 req.

A study of physical, cognitive, and personality development during adulthood, with emphasis on theories, empirical data, research methods, and current issues.

305 PSYCHOLOGY OF WOMEN 3 F.S
PSY 111 req.

An examination of psychological research to place in scientific perspective the etiology and behavioral consequences of female and male-oriented attitudes.

320 HISTORY AND SYSTEMS OF PSYCHOLOGY 3 F.S
12 hrs of PSY req.

Historical antecedents of modern psychology, beginning with Aristotle. Examination of modern psychology from a systematic point of view.

331 STUDIES IN EXPERIMENTAL PSYCHOLOGY 3 F.S
PSY 231, 240, or cons inst req. May be repeated if content different.

Individualized research course focusing on particular content areas. Sections concentrate in different areas.

333 PRINCIPLES OF BEHAVIOR MODIFICATION 3 F.S
PSY 111 req.

Principles of behavior modification with an emphasis upon their use in a variety of educational and clinical settings.

334 PSYCHOLOGICAL MEASUREMENT 3 F.S
PSY 111 req.

Selection, evaluation, and interpretation of psychological tests, with emphasis on basic theory. Tests are considered as indicators of constructs in specific decision situations.

341 STATISTICS II 3 F.S
PSY 240 req. Formerly PSY 440.

Logic of statistical inference: interval estimation, complex hypothesis testing, and non-parametric techniques. Applications in behavioral sciences.

346 PSYCHOLOGY OF EXCEPTIONAL CHILDREN 3 F.S
PSY 112 or 301 or 302 or C&I 210 or cons inst req.

A study of the socio-psychological factors influencing the exceptional child's cognitive and affective development with implications for those working with exceptional children.

347 BEHAVIOR DISORDERS IN CHILDREN 3 F.S
PSY 111 req.

Medical, psychological, sociological aspects of behavioral disorders of children.

350 PSYCHOPATHOLOGY 3 F.S
12 hrs of PSY req.

Behavior disorders; neuroses, psychoses, character disorders, mental deficiencies, and other psychopathological conditions.

352 HUMAN ABILITIES 3 F
PSY 334 req.

Nature, assessment and organization of human abilities. Empirical and theoretical analysis of genetic and environmental factors in development of abilities.

360 LEARNING 3 F.S
PSY 111 req.

Experimental data bearing on the problem of human learning; learning theory; learning data and theory in relation to applied problems.

361 PERCEPTION 3 F.S

9 hrs of PSY or cons inst req.

Cognitive processes and their relationship to other processes. Relationship of sensation, attention, and memory to perception and factors influencing perception.

363 PHYSIOLOGICAL PSYCHOLOGY 3 F.S

9 hrs of PSY and BSC 100 or cons inst req.

Neurophysiological and biochemical substrates of behavioral processes including sensori-motor, perceptual, motivational, emotional and intellective behaviors.

364 MOTIVATION 3 F.S

9 hours of PSY or cons inst req.

Evolution of basic concepts leading to contemporary explanation of determiners of action with application to vocational, social and educational areas.

365 DYNAMICS OF SOCIAL BEHAVIOR 3 F.S

PSY 131 req.

An overview of the explanations for various aspects of social behavior, e.g., interaction, attitudes, person perception, etc.

375 PERSONNEL PSYCHOLOGY 3 F.S

PSY 230 or 334 or cons inst req.

Procedures and methods used to match individual skills and abilities to the requirements of specific jobs; emphasis is on personnel selection.

376 ORGANIZATIONAL PSYCHOLOGY 3 F.S

PSY 230 or cons inst req. Not for credit if had BUA or MAM 221 or 421.

Research methods and results concerning social psychology of work organizations. Descriptions of practices of organizational psychology.

392 SENIOR SEMINAR 3 F.S

Sr. standing, PSY maj min only. Not for grad credit.
Formerly PSY 292.

Detailed study of specific areas within the discipline.

SOCIOLOGY, ANTHROPOLOGY, AND SOCIAL WORK (SAS)

338 Schroeder Hall

Chairperson: Robert H. Walsh.

Faculty: Sociology: Professors: P. Baker, Davis, Grupp, Hickrod, Leonard, Pohlmann, Schmitt, Thomas, Walsh, Zey-Ferrell. Associate Professors: Eaton, C. Griffin, Heyl, Lee, Pocs, Stivers, Tolone, Treadway. Anthropology: Professor: Jelks, Reyman. Associate Professors: Dirks, Nickels. Social Work: Professor: Pratt. Associate Professors: Cunningham, Assistant Professors: D. Baker, Campbell, Howard, Smith, Woolley.

Sociology Programs

Degrees Offered: B.A., B.S.

MAJOR IN SOCIOLOGY

— 30 hours in Sociology required and 18 hours in related fields.

— Required courses: SAS 106, 240, 270, 271, and electives to complete 30 hours; at least 18 additional hours in the social-behavioral sciences of anthropology, history, economics, political science, and psychology, with at least 3 hours in anthropology, economics, and psychology and not more than 6 hours in any one field counted toward the 18 hour requirement. No Anthropology or Social Work course may be counted toward the 30 hours in Sociology required for the major.

MINOR IN SOCIOLOGY

— 18 hours in Sociology required.
— Required course: SAS 106. No Anthropology or Social Work course may be counted toward the 18 hours in Sociology required for the minor.

MINOR IN SOCIOLOGY EDUCATION

— HIS 290 is required in addition to the requirements listed for the Minor in Sociology.

Anthropology Programs

Degrees Offered: B.A., B.S.

MAJOR IN ANTHROPOLOGY

— Minimum of 33 and maximum of 45 hours in Anthropology required.
— Required courses (24 hours): SAS 180, 181, 182, 274, 281, 285, 286, 380.
— Electives (9 hours) selected from other Anthropology courses.

Students will be advised in individual consultation to take a number of supporting courses in cognate disciplines. The program in cognates may emphasize either the social sciences or the natural sciences, reflecting the student's primary interest in physical anthropology, biological anthropology, or archeology. No Sociology or Social Work course may be counted toward the 30 hours in Anthropology required for the major.

MINOR IN ANTHROPOLOGY

— 18 hours in Anthropology required.
— Required courses: SAS 180, 182, 274.
Additional Anthropology electives will be recommended on an individual basis. No Sociology or Social Work course may be counted toward the 18 hours in Anthropology required for the minor.

MINOR IN ANTHROPOLOGY EDUCATION

— HIS 290 is required in addition to the requirements listed for the Minor in Anthropology.

Social Work Program

Degrees Offered: B.A., B.S.

COMPREHENSIVE SOCIAL WORK MAJOR

Total of 53 hours required, including 21 hours in Foundation courses and 32 hours in Core courses in Social Work.

— 21 hours required in Social Work Foundation courses: PSY 232; SAS 131, 240, 261, 264, 271, 332.
— 32 hours required in Social Work Core courses: SAS 221, 222, 223, 325, 335, 368, 378, 391.
— PSY 111 must be taken as a University Studies course or general elective.

Suggested electives include BSC 100; CJS 101; C&I 312; PHI 138; POS 105, 215, 264; PSY 112, 301, 302; SAS 106, 107, 180, 260, 262, 263, 272, 282, 323, 342, 366, 370; SED 109; or other relevant courses selected in consultation with the student's Social Work adviser.

Admission to the Social Work Major: In order to be accepted for admission to the Social Work program, a student must have at least 45 semester hours of credit and must have completed SAS 221 with a grade of C or better. The applicant's grade point average must be 2.5 or better, and the applicant must have completed at least 100 clock hours of volunteer or paid work experience in a social welfare agency not more than two years prior to application to the Social Work program. Information about valid experiences is available from the director of the Social Work program.

Students are required to make a formal application to the Social Work faculty for admission to the program and should make application during the semester in which the student expects to complete 45 semester hours or more. Exemptions from the 2.5 GPA requirement may be made for students who demonstrate potential for academic success in social work. Exceptions are granted upon the recommendations of the Social Work Admission Committee and the director of the Social Work Program. Students with less than a 2.5 GPA that are accepted into the program must have a 2.25 GPA or better and have earned at least a C in English 101. If they have a GPA of 2.25 and have earned less than a C in English 101, they must take either English 145 or Business 215 and earn not less than a C prior to being admitted into the program.

Sociology Courses

106 INTRODUCTION TO SOCIOLOGY 3 US-5 F.S

Structure and dynamics of human society. Concepts of culture, socialization, stratification, collective behavior, family, minority relations, population, crime.

107 SOCIAL PROBLEMS 3 US-5 F.S SAS 106 rec.

The nature, social definition, and interrelationship of social problems. Selected topics may include aspects of societal problems and deviant behavior.

123 HUMAN SEXUALITY 3 F.S SAS 106 or PSY 111 rec. Not for credit if had PSY 123.

Basic psychological, socio-cultural, and physiological elements of human sexuality.

131 SOCIAL PSYCHOLOGY 3 US-5 F.S SAS 106 or PSY 111 rec. Not for credit if had PSY 131.

The scientific study, from a sociological perspective, of the attitudes and behavior of individuals in the group setting and interaction between individuals and groups.

210 SOCIOLOGY OF HEALTH AND MEDICINE 3 S SAS 106 rec.

Analysis of social roles related to disease and illness; social aspects of distribution of disease; societal response in health professions and the organization of medicine.

211 SOCIAL GERONTOLOGY 3 F.S SAS 106 or PSY 111 rec.

Process and consequences of aging; interplay between social and social-psychological forces and the aged population in society.

212 SOCIOLOGY OF DEATH 3 S SAS 106 or PSY 111 rec.

Complexities of death-related behavior in modern societies;

sociological and social-psychological viewpoints; theoretical and pragmatic implications.

240 SOCIAL STATISTICS 3 F.S SAS 106 req. Not for credit if had PSY 240 or 340 or C&I 340.

Application and interpretation of basic descriptive and inferential statistics used in behavioral research. Non-parametric and parametric statistics are considered.

260 SOCIAL STRATIFICATION 3 S SAS 106 rec.

Theories and character of social class systems, differential class behavior, mobility, power relationships, and caste and estate systems.

261 THE COMMUNITY 3 US-5 F.S SAS 106 rec.

Structure and function of the community. Changes in community; power, leadership, community organization.

262 MARRIAGE AND THE FAMILY 3 F.S SAS 106 rec.

Sociological and social psychological examination of the patterned and dynamic aspects of marital and family relationships.

263 DEVIANTE BEHAVIOR 3 F.S SAS 106 rec.

Causes, societal response and control of deviant behavior. Definition of deviant acts, stigmatization, and the process of reabsorbing deviants.

264 MINORITY RELATIONS 3 F.S SAS 106 rec.

Racial, national, and religious minorities and women. Patterns of discrimination and prejudice, and change in intergroup relations.

267 POPULATION 3 US-5 F.S SAS 106 rec.

Dynamics and policy implications of United States and world population size and change including fertility, mortality, migration, composition, spatial distribution, future trends, and relation to resources.

268 SOCIOLOGY OF RELIGION 3 US-5 F.S SAS 106 rec.

Functions and origins of religion; impact of religion on individual, society and culture: social forces affecting religion.

270 HISTORY OF SOCIOLOGICAL THOUGHT 3 F.S SAS 106 rec.

Analysis and appraisal of classical works in sociology from mid-nineteenth century to the present.

271 INTRODUCTION TO SOCIOLOGICAL RESEARCH 3 F.S SAS 106 req.

Convergence of theory and research; design of inquiry, measurement, survey design, data collection, analysis and interpretation. Research projects are part of the course.

311 ISSUES IN GERONTOLOGY 3 S SAS 211 or cons inst req.

Advanced treatment of selected subjects in gerontology.

317 SOCIOLOGY OF SPORT 3 S Also offered as HPR 317.

The social institution of sport is examined using such sociological concepts as social organization, culture, socialization, deviance, social stratification, minority groups, and collective behavior.

332 SMALL GROUPS 3 F.S

SAS 131 or PSY 131 req.

Conditions affecting interaction in small groups, the small group as an ongoing social system. Limited research project.

333 SELF AND SOCIETY 3 F.S

SAS 106 or PSY 111 req.

A social psychological approach. Childhood and adulthood socialization are examined from the perspectives of symbolic interactionism, role theory, reference group theory, and self theory. Pragmatic implications are considered.

341 SOCIOLOGY OF SEX ROLES 3 S

SAS 106 or PSY 111 req.

Application of culture concepts, status, role and self concepts, and socialization concepts toward the explanation of sex differences in social behavior. Institutionalized and social change processes are examined.

342 ADVANCED HUMAN SEXUALITY 3 F.S

PSY 123 or SAS 123 req.

Analysis of personal, interpersonal, and sociocultural aspects of sexual relationships.

343 SEXUALITY EDUCATION 3 F.S

SAS 123 req.

Perspectives, approaches, resources and the development of basic skills in sexuality education.

350 SOCIOLOGY OF EDUCATION 3 F.S

SAS 106 req.

Sociological perspective on educational systems. Relationship of the educational system to other institutions, organizational characteristics and social factors influencing behavior of students.

365 JUVENILE DELINQUENCY 3 F.S

Delinquency as a social and legal problem; theories of delinquency, the juvenile court; prevention and treatment.

366 CONTEMPORARY SOCIAL MOVEMENTS 3 F

SAS 106 req.

Patterns of collective behavior; structure and functions of social movements. Examination of several social movements, analysis of morale, leadership and control.

367 CRIMINOLOGY 3 F.S

Criminological theory and practice. Crime as a social and legal problem. The administration of justice.

369 SOCIAL CHANGE 3 F

SAS 106 rec.

An investigation of social change theory; case studies of change in developing societies undergoing modernization; the dynamics and consequences of planned social change.

390 PRACTICUM IN SOCIOLOGICAL RESEARCH 3 F.S

SAS 240 and 271 or conc reg req. May be repeated once.

Experience in the design, implementation, analysis, and reporting of social science research through surveys, secondary data analysis, demographic analysis and program evaluation in an actual research program usually in cooperation with a community agency.

398 PROFESSIONAL PRACTICE:

INTERNSHIP IN

APPLIED SOCIOLOGY 3-6 F.S

SAS 271 or equiv req. For undergraduate credit only.

Independent experience in applying sociology in a supervised community work setting. Final paper for sociology adviser based on research project or sociological analysis of the experience.

Anthropology Courses**180 INTRODUCTION TO CULTURAL ANTHROPOLOGY 3 US-5 F.S**

The origin and evolution of social and cultural life past and present. Concepts, hypotheses, and theories used to explain similarities and differences in the lifestyles of peoples of the world.

181 WORLD PREHISTORY 3 F

Formerly SAS 273.

Survey of prehistoric human cultures from their origins to the beginning of the historic period with emphasis on the Old World.

182 INTRODUCTION TO PHYSICAL ANTHROPOLOGY 3 US-3 F.S

Introduction to the evolutionary and biological nature of humans, physical attributes, primate and human evolution, human variation and adaptation, and the interrelationship of human biology and behavior.

184 CULTURES OF THE WORLD 3 US-8 F.S

Not for credit maj min.

Surveys a sample of cultures and their solutions to universal human problems.

272 NORTH AMERICAN INDIANS 3 US-8 S

SAS 180 req.

Comparative survey of selected historic and modern Native American cultures.

274 INTRODUCTION TO ARCHAEOLOGY 3 S

SAS 181 req. Formerly SAS 183.

Principles, methods and techniques of locating and excavating archaeological sites, interpreting archaeological data, and constructing culture history.

280 ARCHAEOLOGY OF THE MIDWEST 3 S

SAS 274 req.

Prehistoric Indian populations of the Midwestern United States, including Paleo-Indian, Archaic, Woodland, and Mississippian peoples, from late Pleistocene to the historic period.

281 PRINCIPLES OF ETHNOLOGY 3 S

SAS 180 req.

The major dimensions of sociocultural systems such as marriage, domestic organization, age grades, secret societies, and religion studied from a cross-cultural perspective using a variety of theoretical frameworks.

282 URBAN ANTHROPOLOGY 3 S

SAS 180 req.

Theory and research in urban anthropology; migration and urbanization in Western and non-Western societies.

283 PREHISTORY OF NORTH AMERICA 3 F

SAS 180 req.

Prehistoric cultures of North America, from late Pleistocene to the occupation of the continent by Europeans. Origin and development of cultural patterns traced; current problems examined.

284 THE ANTHROPOLOGY OF NATIVE AMERICAN ART 3 US-8 F

Culture-ecology and behavior of historic North American Indian groups, excluding Mexico, as understood from analyses of their art.

285 ETHNOGRAPHIC SURVEY 3 F

SAS 180 req.

The study of ethnography as a descriptive mode including an in-depth consideration of selected cultural groups.

286 HUMAN EVOLUTION 3 **S**
SAS 182 rec.

A detailed survey of the principal fossil discoveries, controversies, and proposed models of human biological evolution.

288 HUMAN VARIABILITY AND ADAPTION 3 **F**
SAS 182 rec.

Study of human population variations in terms of biological and cultural adaptions to different environments.

290 PRIMATE STUDIES 3 **S**
SAS 180 or 182 rec.

Concentrated examination of various aspects of the primates: their biology, behavior, evolution, and significance for understanding human nature.

306 REGIONAL AND AREA STUDIES 1-9 **F,S**

Directed study in any of the subdisciplines in anthropology.

380 KEY CONCEPTS IN ANTHROPOLOGY 3 **F,S**
SAS 180, 181, 182, 274, 281, 285, 286 req.

Anthropological thought from historical, systematic and applied viewpoint; emphasis on changing content, concepts, methods of the discipline.

381 ARCHAEOLOGICAL FIELD SCHOOL 1-9 Summer **F**
SAS 181, 274 rec.

Field instruction in methods and techniques of archaeological survey, excavation, preparation and preservation of materials, and record keeping.

383 STUDIES IN SELECTED CULTURES 3 **F**
SAS 180 req.

Culture patterns of selected areas. Physical characteristics, history, social, political, intellectual life, cultural change of aboriginal people.

388 HISTORICAL ARCHAEOLOGY 3 **S**
SAS 274 req.

Research methods of historical archaeology reviewed, and the principles that underlie the methods examined critically. A local historic site is thoroughly studied as a class project.

Social Work Courses

170 SURVEY OF SOCIAL WORK AND SOCIAL WELFARE 3 **US-7 F,S**
Not for credit maj min.

A survey of the profession of social work and the institution of social welfare in contemporary United States.

221 INTRODUCTION TO SOCIAL WELFARE 3 **F,S**
SAS 106, PSY 111 req.

The historical development of social welfare as an institution and the impact of social, economic factors, and the ideological systems on social welfare laws, policies and programs. Includes the development of the social work profession from selected social movements.

222 SOCIAL WELFARE POLICY AND SERVICES 3 **F,S**
SAS 221 req.

Descriptive, analytical, and critical analysis of social welfare programs, policies, and issues.

223 HUMAN BEHAVIOR IN THE SOCIAL ENVIRONMENT 3 **F,S**
PSY 232, or conc reg req.

The integration of major concepts from the social and behavioral sciences in terms of their relevance for social work.

323 CHILD WELFARE SERVICES 3 **F,S**
SAS 221, 222 req or SED or HEC maj.

Recommended before SAS 368 if student wishes placement in a child-serving agency. Services for dependent, neglected and handicapped children.

325 SOCIAL WORK METHODS I 3 **F,S**
SAS 221, 223, and 264 or conc reg req. Lecture and laboratory.

Basic theory, values, and beginning skills development generic to social work practice at individual, group, and community levels.

335 SOCIAL WORK METHODS II 3 **F,S**
SAS 261, 325, and 332 or conc reg req. Lecture and laboratory.

Course is a continuation of methodology and skills in social work practice, and focuses specifically on knowledge, principles, techniques and approaches to effect change in small groups, organizations, communities, and larger collectives.

368 SOCIAL WORK FIELD INSTRUCTION I AND SEMINAR 6 **F**
SAS 335, sr. standing and formal admission to SWK maj req. Materials charge optional.

Supervised field instruction and practice in social work methods with individual, groups, and communities in a social welfare agency. Course includes a weekly, campus-based, faculty-led seminar in which theory and practice are integrated. A grade of C or better is required in this course to take SAS 378.

378 SOCIAL WORK FIELD INSTRUCTION II 8 **S**
Completion of SAS 368 with a grade of C or better req.

Advanced supervised field instruction and practice in social work. Setting usually the same as in SAS 368 but experiences are more diverse and complex. Seminar focuses on integration of theory and practice with emphasis on the student as a professional social worker.

391 SENIOR SEMINAR IN SOCIAL WORK 3 **.S**
SAS 368 or conc reg.

A seminar on specific selected topics not covered critically elsewhere in the major. Through assigned readings, discussions and the presentation of a substantial researched study, students analyze a social welfare issue or an area of social work practice.

SPEECH PATHOLOGY AND AUDIOLOGY (PAS)

204 Fairchild Hall

Chairperson: Martin A. Young.

Faculty: Professor Hutchinson, Young. Associate Professors: Brunt, Haller, Hufnagle, Hulit, Richards, Tannahill. Assistant Professors: Bowman, Davidson, Howard, Monson, Spiegel, Thomley. Instructors: Bising, Duffee, Semanko, Whitlock. Faculty Assistant: Wood.

Speech Pathology and Audiology Programs

Degrees Offered: B.A., B.S. Programs are accredited by the American Speech-Language-Hearing Association.

COMPREHENSIVE SPEECH PATHOLOGY EDUCATION MAJOR

- 40 hours in Speech Pathology-Audiology required.
- Required courses: PAS 112, 211, 272, 301, 315, 316, 318, 319, 320, 321, 330, 337 (1 hour), 350, 351.
- Professional Education requirements: SED 145, 220; C&I 210; EAF 228 or 231 or 235; PSY 232, 334, 346; PAS 399 (8 hours).

This is a preprofessional program designed to prepare students for graduate work in communicative disorders. Students must have a master's degree in this field to obtain both the Illinois Certificate in Speech and Language Impaired and the American Speech-Language-Hearing Association's clinical certificate. Copies of requirements for both of these are available in the departmental office. The Illinois Certificate in Speech and Language Impaired requires 300 hours of supervised clinical experience. To accrue these hours, undergraduate majors in this program take one semester hour of PAS 337 and 8 hours of Student Teaching 399. Additional hours of supervised clinical experience are obtained in graduate school. A cumulative grade point average of 2.6 is required on all work completed at Illinois State University before admission to PAS 337, 358, and 359; a grade point average of 2.6 in all work taken at Illinois State University and all work at Illinois State University taken in the major field is required for admission to Student Teaching 399.

COMPREHENSIVE AUDIOLOGY MAJOR

- 43 hours required. *Note: Because of prerequisites or lack of prior skill, this major may require more hours than indicated.*
- Required courses: PAS 211, 272, 301, 315, 320, 321, 330, 337 (1 hour), 350, 351, 358 (1 hour), 359 (1 hour); SED 330, 353; PSY 333, 334, 346.
- The audiology program is designed to prepare the student for graduate work in audiology. This is a non-teaching program and does not qualify the student for a teaching certificate. Upon completion of the master's degree, the student will have completed the academic and clinical requirements for the American Speech-Language-Hearing Association's Certificate of Clinical Competence in Audiology.

MINOR IN SPEECH PATHOLOGY AND AUDIOLOGY

- 21 hours required.
- Required courses: PAS 211, 315, 320, 350. Electives cannot include practicum courses.

Students taking this minor will not qualify in this area for Illinois or American Speech-Language-Hearing Association certification.

Speech Pathology and Audiology Courses

112 SURVEY OF SPEECH AND HEARING DISORDERS 3 US-7 F.S

Incl Clin Exp.

Current theories of speech production and reception. De-

signed for parents and teachers. Includes rehabilitative and rehabilitative procedures.

114 VOICE AND ARTICULATION IN COMMUNICATION 3 F.S

Designed to meet personal and vocational oral communication goals of students through a consideration of vocal and articulatory variations between formal and informal American speech patterns. Facilitation of optimal use of the speech mechanism in the process of oral communication

115 INTRODUCTION TO HUMAN VERBAL DEVELOPMENT 3 US-7 F.S

The communication process; emphasis on opportunities for maximum stimulation of speech and language development in children.

120 SOUND AND MAN 3 US-7 F.S

Information from acoustics, psychology, physiology, linguistics, speech, and music engineering. Sound; role in man's endeavors, harmful effects, methods of control.

211 PHONETICS 3 F.S

Formerly PAS 311.

Sound system of American speech. Standard and non-standard variations. Articulatory and acoustic considerations. Practice in transcribing and reading phonetic symbols.

272 ANATOMY AND PHYSIOLOGY OF THE SPEECH AND HEARING MECHANISM 3 F.S

Formerly PAS 372.

Study of the anatomic and physiologic foundation of the speech and hearing mechanism. Current physiologic theory is applied to etiology of speech and hearing disorders.

301 SPEECH SCIENCE 3 F.S

PAS 272 req. Formerly PAS 371.

Elementary acoustical theory and application to the study of speech production and reception. Speech spectrography.

315 INTRODUCTION TO PHONOLOGICAL DISORDERS 3 F.S

PAS 211 or conc reg req. Incl Clin Exp. Not for grad cr.

Formerly PAS 215.

Orientation to speech pathology profession. Introduction to articulation problems.

316 INTRODUCTION TO ORGANIC DISORDERS OF SPEECH 3 F.S

PAS 272 req. Incl Clin Exp.

Speech disorders related to structural, neurological, and endocrine pathologies. Diagnostic and remedial procedures.

318 ORGANIZATION OF SPEECH, HEARING AND LANGUAGE PROGRAMS 3 F.S

Sr. or higher standing req.

Professional attitudes, ethics, and organizations. Setting up and maintaining programs. Evaluation, therapy techniques, materials applicable to school settings. Relationships to school and community agencies.

319 STUTTERING I 3 F.S

Incl Clin Exp.

Nature and history of the problem. Current models of onset, development and management.

320 SPEECH AND LANGUAGE DEVELOPMENT 3 F.S

Incl Clin Exp.

Comprehensive study of acquisition of speech and language by children. Emphasis on first six years.

321 LANGUAGE PATHOLOGY 3 F.S

PAS 320 req. or an equiv human language development crse at the 300 level.

Introduction to language disorders in children and adults which are associated with brain damage, learning disabilities, psychopathology, and mental retardation.

330 INTRODUCTION TO CLINICAL METHODS 3 F.S
PAS 315, 321 or conc reg req. Maj only. Not for grad cr. Formerly PAS 220.

Introduction to clinical techniques and client management. Records, reports, behavioral observation and assessment, therapy procedures and some laboratory experience.

337 PRACTICUM IN SPEECH PATHOLOGY 1/2-1 F.S
PAS 330. Overall GPA of 2.6 req. May be repeated. Max 2 hrs. Materials charge optional. Formerly PAS 317.

Approximately 45 hours of supervised clinical practice for each semester hour.

350 AUDIOLOGY I 3 F.S
Incl Clin Exp.

Principles of hearing measurement: sound, human ear, test methods, hearing losses, screening methods, test interpretation.

351 SPEECH READING AND AUDITORY TRAINING 3 F.S
Incl Clin Exp.

Principles of habilitation/rehabilitation of communication disorders related to hearing impairment. Visual/auditory speech signals. Amplification: function/use.

358 PRACTICUM IN BASIC AUDIOLOGY 1/2-1 F.S
PAS 350 req. Overall GPA of 2.6 req. May be repeated. Max 2 hrs. Materials charge optional.

Approximately 45 hours of supervised clinical practice for each semester hour.

359 PRACTICUM IN SPEECH READING AND AUDITORY TRAINING 1/2-1 F.S
PAS 351 and 358 req. Overall GPA of 2.6 req. May be repeated. Max 2 hrs. Materials charge optional. Formerly PAS 352.

Approximately 45 hours of supervised clinical practice for each semester hour.

360 AUGMENTATIVE COMMUNICATION SYSTEMS FOR NON-SPEAKING PERSONS 3 F

Description of non-speaking populations, excluding deaf. Review of available augmentative systems, assessments, system selection and research questions.

COLLEGE OF BUSINESS

Dean: Andrew T. Nappi, 316 Williams Hall.

Objectives: The primary objective of the College of Business is to prepare students for professional or managerial careers in business, education, government, industry or nonprofit organizations. The College firmly supports the principle that education for business requires the assimilation of a basic common-body-of-knowledge as well as opportunities for acquiring depth in appropriate fields. The College offers programs leading to the Bachelor's degree with majors in Accounting; Management; Marketing; Finance; Business Administration; Office Administration; and Business Education with sequences in General Business Education, Distributive Education and Secretarial Education. Minor programs are also available.

The College also offers graduate programs leading to the Master of Science in Accounting, Master of Business Administration, and the Master of Science or Master of Arts in Business Education. Detailed information concerning these programs may be found in the Graduate Catalog.

With careful planning and coordination between colleges and departments, qualified students may complete an undergraduate nonbusiness major and a Masters of Business Administration in five years.

The College of Business is involved in research, public service and faculty professional development and maintains a relationship with business, industrial and service organizations in the surrounding area.

Departments in the College of Business are: Accounting; Business Education and Administrative Services; Finance and Law; and Management and Marketing.

Internship Program in Business: Business majors are encouraged to participate in the internship program in business available in each department. The program provides students an opportunity to work under a carefully organized and approved internship experience during the academic year with a participating firm or organization. Business majors interested in this program are urged to arrange an interview with department advisors at their earliest convenience so that their total program includes provision for participation in the internship program. Students are advised to check on the specific requirements for the internship program offered by their major department.

Small Business Institute: Business majors, under the supervision of a professor, work in teams with small businesses to study and consult on management problems. The student team submits a written report of its findings to the business owner-manager, as well as giving an oral presentation, stating problems, alternative solutions and recommended solutions. The Small Business Institute, directed by Dr. Robert Kerber, provides a unique learning experience for students and free counseling services to participating firms to help solve problems concerning marketing, management, financial analysis, accounting, data processing, business operations and related disciplines. The program is sponsored by the College of Business in cooperation with the U.S. Government Small Business Administration.

Academic Standards: The academic standards of the University apply to all of the programs housed in the College of Business. The following additional academic standards apply to all departments in the College of Business: (1) At least 42 hours of the total 120 hours required

for graduation shall be coursework devoted to studies other than business, economics, and administration; (2) The senior year's work, with minor exceptions, must be taken in residence at Illinois State University; (3) Course prerequisites must be taken in required sequence; (4) Students who go on probation a second or subsequent time will be dropped from the College of Business except where higher standards are required in particular departments within the College; and (5) Students transferring into any of the programs housed in the College of Business from other programs in the university or from other academic institutions or between programs within the College of Business must meet the admission standards for the College and the major within the College.

No student (major or nonmajor) may enroll in a 200 level course in the College of Business without having at least 45 credit hours earned toward a baccalaureate degree at the time of such enrollment. Business majors must also have completed all specified prerequisites prior to enrollment in a 200 or 300 level course in the College of Business.

Repetition of courses: A student may register officially for a given course in the College of Business only twice. That is, if a student completes a course, or drops a course after the tenth-day enrollment report, he or she may enroll officially in that course one additional time.

Change in Academic Policies: Effective January, 1982, the following policies apply to all new students, new non-business majors, and transfer students whose graduation requirements are not governed by a preceding catalog

Admission Policy: Students may make formal application for admission to the College of Business when they have satisfied the following requirements:

1. Completion of 45 semester hours earned with at least a 2.20 overall grade point average (GPA) on a 4.00 system. Individual programs (majors) within the College may elect to require a higher GPA to an upper limit of 2.50 in a given year for final admission. The number of students finally admitted into each program in a given year may vary from year to year.
2. Completion of, or current enrollment in, the following tool courses is required: ACC 131, 132; ECO 100, 101; ENG 101 and MAM 100. **These tool courses or their equivalent must be completed, and a total of 60 semester hours must be earned prior to entrance into 200-300 level business courses and final admission into the College of Business.**

Final admission into each program (major) within the College of Business will be from the pool of qualified applicants for that program on the basis of the individual qualifications. The College of Business reserves the right to maintain a balanced enrollment.

Academic Policies: The academic policies of the University apply to all of the programs in the College of Business. In addition, the following special academic requirements apply to all students in the College of Business:

1. Students must complete at least 42 hours of the total 120 hours required for graduation in studies other than business, economics, and administration.

2. Students majoring in business must complete their senior year (30 credits) in residence at Illinois State University. Under unusual circumstances, the Dean of the College of Business may grant a modification of this requirement.
3. Students must take courses and their prerequisites in required sequence.
4. Students may, during the preregistration period only, enroll in a 200 level course in the College of Business with a minimum of 45 semester hours and in a 300 level course with a minimum of 60 semester hours earned toward the baccalaureate degree at the time of such pre-enrollment. To receive credit for an upper division course a student must have earned at the time the course begins a minimum of 60 semester hours of credit for a 200 level course and a minimum of 75 semester hours of credit for a 300 level course.
5. Students who go on probation a second or subsequent time will be dropped from the College of Business.
6. A graduate Student-At-Large will not be permitted to register for any undergraduate courses in the College of Business.
7. A student may register officially for a given course in the College of Business only twice. That is, if a student completes a course or drops a course after the tenth day enrollment report, he or she may enroll officially in that course one additional time.

Transfer Policies: In addition to the general requirements of the University and the College, the following requirements apply to transfer students from other academic institutions seeking a business degree:

1. Credit for business and related courses from two-year institutions may be transferred and applied to the business core and to the major program but shall be limited to such courses that the College of Business offers at the lower division level (freshman and sophomore).
2. Credit for business and related courses from baccalaureate degree granting institutions may be transferred and applied to the business core and to the major if the course for which the credit is being transferred is at the equivalent level of the comparable course at Illinois State.
3. In cases where equivalency of courses is not clear, departments in the College of Business may require proficiency examinations before transfer credit is accepted.

Non-Business Majors: Non-business majors who desire to elect more than 25 percent (30 credits) of their course work in business must meet all College of Business requirements for graduation. These students should register for additional courses in person only and with the written permission of the College of Business adviser.

Course Requirements for Business Programs: The courses listed below (33 hours total) are a required part of the business core and must be completed by all students majoring in business programs.

ACC 131 Elementary Accounting I	3
ACC 132 Elementary Accounting II	3
ACC 166 Business Data Processing	3
FAL 210 Business Law I	3
FAL 240 Business Finance	3
MAM 100 Business and Economic Statistics	3
MAM 220 Business Organization and Management	3
MAM 230 Basic Marketing	3
MAM 385 Problems in Business	3

ECO 100 Principles of Economics I	3
ECO 101 Principles of Economics II	3

ACCOUNTING (ACC)

435 Stevenson Hall

Chairperson: James A. Hallam.

Faculty: Professors: Fish, Hallam, Lammers, Rozanski, Sanderson, Secoy, Tussing. Associate Professors: Carmody, Currie, Rexroad, Sands, Sieg. Assistant Professors: Craig, Duffy T., Holt, Krueger, McKean, Oman, Razaki, Streif, Taylor. Instructors: Bielfeldt, Brant, Dawson, Duffy W., Falb, Leinicke, Pilchard, Shankle, Toeple, Zambell.

Accounting Programs

Degree Offered: B.S.

The Department of Accounting offers three sequences under the Accounting Major: 1) Financial Accounting, 2) Industrial Accounting, and 3) Business Information Systems. These programs emphasize the development of students' analytical capabilities and students' knowledge of the usefulness and limitations of accounting information. After graduation, students who complete the Financial Accounting sequence may sit for examinations leading to professional certification as a Certified Public Accountant (CPA) or Certified Management Accountant (CMA). Students who complete the Business Information Systems sequence may sit for the Certified Data Processor (CDP) examination.

All accounting majors must complete at least 42 hours outside the College of Business and in subject areas other than business, economics, and administration as part of the 120 hours required for graduation.

ACCOUNTING MAJOR

Financial Accounting Sequence: Students selecting the Financial Accounting sequence must complete ACC 131, 132, 166, 230, 231, 232, 233, 235; BEA 240; FAL 210, 211, 240; MAM 100, 220, 230, 385; COM 110, 227; ECO 100, 101; MAT 121 or 145 (Note: MAT 120 is a prerequisite for MAT 121). Also required are 9 hours of upper division (200-300 level) Accounting electives.

Industrial Accounting Sequence: Students selecting the Industrial Accounting sequence must complete ACC 131, 132, 166, 230, 231, 232, 332; BEA 240; FAL 210, 240, 341; MAM 100, 220, 227 (or IT 311), 230, 327, 385; IT 192, 208, 233, 308, 311 (or MAM 227), 386; COM 110, 123; ECO 100, 101; MAT 121 or 145 (Note: MAT 120 is a prerequisite for MAT 121); PHI 110; PHY 105; PSY 111.

The student must also choose, with the consent of an adviser, one of the following:

- A. Materials: IT 289 (Materials Technology) and 332
- B. Processing: IT 331 and either 319 or 389 (Computer-Aided Design/Computer-Aided Manufacturing).

This sequence will not prepare a student for the examinations to become a certified public accountant. A student who wishes to take the CPA examinations should take the following additional courses: ACC 233, 235, 337, and 375.

Business Information Systems Sequence: Students selecting the Business Information Systems (BIS) sequence must complete ACC 131, 132, 166, 230, 231, 232, 233, 235, 261, 266, 362, 366; BEA 240; FAL 210, 211, 240; MAM 100, 220, 230, 385; COM 110, 227; ECO 100, 101; MAT 121 or 145 (Note: MAT 120 is a prerequisite for MAT 121).

MINOR IN ACCOUNTING

- 21 hours in Accounting required.
- Required courses: ACC 131, 132, 231, 232.
- 9 elective hours in ACC courses.

Repetition of Courses in Accounting: A student can register officially for an Accounting course only twice. That is, if a student completes a course, or drops a course after the official tenth day enrollment report, he or she may enroll officially in the same ACC course only one additional time.

Admission Standards: The admission standards for the Department of Accounting are the same as the College of Business; however, it should be noted that special prerequisites may exist for many advanced courses in Accounting. Majors should examine prerequisites carefully in the beginning of their academic careers since many of the advanced courses require a GPA of 2.5 or a grade of A or B. Since a 2.5 GPA (2.0 equals C) is above average performance level, the Department of Accounting faculty recommends that Accounting majors have an ACT composite score greater than 23 and rank in the upper one-third of their high school class. Many firms require a 3.0 to interview, thus, the Department of Accounting requires a 3.0 before a student may transfer from another department at Illinois State into the Department of Accounting if the student was admitted to the University before Spring semester, 1982 or if the student's graduation requirements are governed by a catalog preceding 1981-82. All other students are governed by the College of Business admissions policy.

Certain courses may be restricted to Accounting majors only.

The Department of Accounting reserves the right to maintain a balanced student enrollment.

Accounting Courses

131 ELEMENTARY ACCOUNTING I 3 F.S

Elementary course in Financial Accounting. Emphasizes the content and formation of financial statements, financial accounting methods and other topics.

132 ELEMENTARY ACCOUNTING II 3 F.S ACC 131 req.

Emphasis on the broad uses of accounting data internally by managers in directing the affairs of organizations. Includes cost accumulation, budgeting, pricing and other topics.

160 COMPUTER PROGRAMMING FOR BUSINESS 3 F.S

High school algebra. Not for credit if had ACS or MAT 164.

FORTRAN and packaged programs for applications in business.

166 BUSINESS DATA PROCESSING 3 F.S ACC 131 req. Formerly ACC 260. Materials charge optional.

Data processing concepts and COBOL programming.

230 MANAGERIAL ACCOUNTING 3 F.S ACC 132 and MAT 121 req.

Discussion of product costing, planning and controlling routine operations, and analysis of non-routine decisions.

231 INTERMEDIATE ACCOUNTING 3 F.S ACC 132 req.

Theory and procedures underlying income statement as a report on operating performance and balance sheet as a report on financial position.

232 ADVANCED ACCOUNTING 3 F.S

Overall GPA of 2.5 or an A or B in ACC 231 req.

Examination of theory and problems involved in accounting for stockholders' equity, funds flow, and consignment and installment sales.

233 INCOME TAX PROCEDURE 3 F.S

ACC 131 or cons dept chair req. Formerly ACC 333.

Emphasis on individual tax procedures. Introduction to corporation and partnership.

235 AUDITING 3 F.S

ACC 166 and overall GPA of 2.5 or an A or B in ACC 231 req. MAM 100 req. ACC maj only. Formerly ACC 335.

The CPA profession; auditors' opinion; evidence; internal control; auditing standards, programs, procedures and ethics; statistical sampling; working papers.

261 BUSINESS SYSTEMS ANALYSIS FOR COMPUTER PROGRAMMING 3 F.S

ACC 132 and 166 req. Overall GPA of 2.5 or an A or B in ACC 166 req. Formerly ACC 361. Materials charge optional.

Introduction to structured systems analysis and design for business data processing.

266 INTERMEDIATE COBOL 3 F.S

ACC 166 or equiv req. Overall GPA of 2.5 or an A or B in ACC 166 req. Materials charge optional.

COBOL programming involving multiple file processing using both disk files and tape files, data usage, data categories, sort feature, perform verb, and table handling.

268 RPG II 3 Summer

ACC 166 or equiv work experience req.

A study of the Report Program Generator (RPG II) programming language, and the operating control language for the host mini-computer.

330 FUND ACCOUNTING 3 F.S

Overall GPA of 2.5 or an A or B in ACC 231 req. ACC maj only.

Accounting applications to financial planning and control for non-profit institutions.

332 ADVANCED MANAGERIAL ACCOUNTING 3 F.S

ACC 166, 230, MAM 100 and MAT 121 or 115 req.

Overall GPA of 2.5 or an A or B in ACC 230 req. ACC maj only.

Recent conceptual and analytical developments in the area of management accounting.

334 ADVANCED TAX PROBLEMS 3 F.S

ACC 233 or cons dept chair req. Overall GPA of 2.5 or an A or B in ACC 233 req.

Intensive examination of corporation, partnership, estate, trusts, and gift tax problems.

336 AUDITING PROBLEMS 3 F.S

ACC 235 req. Overall GPA of 2.5 or an A or B in ACC 235 req. ACC maj only.

In-depth analysis of statistical samples, accountants' legal exposure, EDP in auditing, analysis of practical problems encountered by the public accountant in a variety of auditing situations.

337 ADVANCED ACCOUNTING PROBLEMS 3 F.S

ACC 232 req. Overall GPA of 2.5 or an A or B in ACC 231 and 232 req. ACC maj only.

Theory and problems involved in preparation and interpre-

tation of consolidated statements, estates and trusts, and partnerships.

338 ACCOUNTING THEORY AND PRACTICE 3

F.S

ACC 230 and 232 req. Overall GPA of 2.5 or an A or B in ACC 230, 231 and 232 req. ACC maj only.

Consideration of the interrelation of theory and practice with a synthesis of Financial and Managerial Accounting, Auditing, and Income Taxes. Current issues and research methodology are prime concerns.

340 INTERNATIONAL ACCOUNTING 3 S

ACC 132 req.

Examination of the financial management of multi-national enterprises and of diverse accounting practices in international business.

362 ADVANCED BUSINESS SYSTEMS

ANALYSIS 3

F.S

An A or B in ACC 261 and 366 or an overall GPA of 2.5, or cons dept chair req. Materials charge optional.

Involves the development of a data processing system, including the development of input files, updating and file maintenance, and design and preparation of reports, and complete documentation of the data processing system.

366 ADVANCED BUSINESS DATA PROCESSING 3

F.S

Overall GPA of 2.5 or an A or B in ACC 266 or ACS 272 req. Materials charge optional.

Advanced applications using disk systems, tape systems and operating systems as applied to business problems using COBOL.

369 DATA PROCESSING CENTER

OPERATIONS 3

F.S

9 hrs in BIS courses or cons dept chair req.

A study of managerial data processing responsibilities, problems and issues encountered by a data processing manager.

375 PROFESSIONAL PROBLEMS 3

S

24 hrs of ACC req. Previous or conc enroll in ACC 337 req. Overall GPA of 2.5 or an A or B in ACC 230, 231,

232, or cons dept chair req. Conc enroll in FAL 375 rec.

An intensive study of contemporary accounting problems with a strong orientation toward the preparation for the CPA examination.

398 PROFESSIONAL PRACTICE:

INTERNSHIP IN

ACCOUNTING 1-6

F.S

Senior, a 2.8 GPA in accounting courses, 2.6 overall. GPA and cons dept chair req.

On-the-job experience in one or more of the following areas: Public Accounting, Industrial Accounting, Managerial Accounting, Governmental Accounting, Tax, and Business Data Processing.

BUSINESS EDUCATION AND ADMINISTRATIVE SERVICES (BEA)

327 Williams Hall

Chairperson: Wilma Jean Alexander.

Faculty: Professors: Alexander, Grever, Hall, Kaisershot, Nappi, Rich, Wray. Associate Professors: Benjamin, Marcum, Palmer, Varner, Winchell. Assistant Professors: Bickley, Dickey-Olson, Dlabay, Shane-Dozier, Wedell, Wilkins. Instructors: Fidler.

BUSINESS EDUCATION AND ADMINISTRATIVE SERVICES Programs

Degrees Offered: B.A., B.S., B.S. in Ed.

The Department of Business Education and Administrative Services offers major degree programs in Business Education and Office Administration. The Business Education Major is comprehensive; therefore, a minor is not required. Students in the Business Education Comprehensive major must choose 12 hours in one or a combination of sequences or concentrations in addition to 36 hours of required courses. (See list of sequences and concentrations below.) The business teacher education programs are developed to comply with teacher certification requirements for the State of Illinois. These programs prepare graduates for secondary and junior college teaching positions as well as for positions in education and training for business and industry.

The Office Administration program provides graduates with career opportunities in various office administrative positions which include (1) office supervisor, (2) administrative analyst, (3) administrative assistant, (4) word processing supervisor, (5) executive secretary, or (6) records manager in business, government, and educational institutions.

Students should note that:

1. At least 42 semester hours of credit toward the bachelor's degree must be taken outside the College of Business and in subject areas other than business, economics, and administration.

2. While an overall grade point average of 2.0 is required for graduation, majors in BEA teacher education programs must have earned a 2.2 grade point average for admission to and retention in the University's teacher education program (see University-wide Teacher Education Program Requirements in the College of Education section of the Catalog for further information).

3. Minimum clinical experiences totaling 35 clock hours shall be completed in the department prior to student teaching. Several courses in the department include clinical experiences; however, it is not necessary to complete all of these courses to satisfy this requirement.

4. Students shall plan programs in consultation with an adviser.

5. Students desiring vocational education certification are required to complete BEA 380 and 382.

Business Education Programs

COMPREHENSIVE BUSINESS EDUCATION MAJOR

— 48 hours required. Part of the entitlement program leading to certification by the State of Illinois for teaching business courses in the secondary schools, grades 6-12. Completion of this major leads to certification by the State of Illinois to teach in the areas of accounting, business arithmetic, business law and business economics. Additional certification may be achieved as noted with the sequences/concentrations below.

— Required courses: ACC 131, 132, 166; BEA 100, 260, 360 (4 hours); FAL 210, 240; MAM 100, 220, 230, 385. Also required are twelve hours of electives selected from one of the following three sequences and five concentrations or from a combination of the three sequences and five concentrations, with the help of the department adviser:

1. **Basic Business Education Sequence** (certification in basic business): BEA 100; FAL 210; BEA/HEC 330; MAM 220 or 230.
2. **Marketing and Distributive Education Sequence** (certification in distributive education programs): BEA 380, 382; MAM 233, 234.
3. **Secretarial Education Sequence** (certification in typewriting and shorthand): BEA 113, 122, 213, 222.
4. **Administrative Support Concentration** (certification in typewriting, office practice, and business English): BEA 113, 140, 213, 255.
5. **Consumer Education Concentration** (certification in typewriting and consumer education): BEA 113, 213, 330, 335.
6. **Information Processing Concentration** (certification in typewriting, office practice, and data processing): ACC 261, 266; BEA 106, 213.
7. **Instructional Techniques for Business Concentration** (in addition to teacher certification, leads to career in education and training for business): BEA 106, 240, 271; PSY 230.
8. **Vocational Office Education Concentration** (certification in office education program): BEA 113, 213, 380, 382.

MINOR IN BUSINESS EDUCATION

- 25 hours required in the College of Business.
- Required courses: BEA 100, 113, 122, 213, 222, 260, 330, 360 (2 hours); FAL 210.
- ACC 131, 132 and 166 may be substituted for BEA 122, 222, and FAL 210 if a student wishes to be certified to teach accounting and business mathematics rather than shorthand and business law.

MINOR IN CONSUMER EDUCATION

- 24-26 hours required in BEA, FAL, HEC, MAM.
- Required courses: BEA 100, 101, 260, HEC 297 or BEA/HEC 330, 335, 360 (CONSUMER EDUCATION) or HEC 203; ECO 100, 101; FAL 210; MAM 230, 231. Appropriate courses, such as HEC 393 (Utilizing Community Consumer Resources), may be substituted for required courses with the approval of the department chairperson.
- Completion of this minor leads to certification in basic business and consumer education.

Office Administration Programs

COMPREHENSIVE OFFICE ADMINISTRATION MAJOR

- 54 hours required in Business (ACC, FAL, MAM, BEA) or other areas specified below.
- Required courses: ACC 131, 132, 166; FAL 210, 240; MAM 100, 220, 230, 385; BEA 100, 101 113, 140, 222 (or ACC 261), 240, 250, 255, 355. In addition, ECO 100 and 101 and MAT 110 or 120 must be completed.

An unclassified student or an Office Administration major may select courses that will prepare the student for administrative support positions. Specific information is available in the Department of Business Education and Administrative Services. Unclassified students who are later admitted to a degree program may apply the courses toward graduation that are listed above and taken while they were unclassified students.

Business Information Systems Sequence: Students electing the Business Information Systems Sequence, in addition to the requirements for the Comprehensive Office Administration Major, must take ACC 261 and 266, and two courses selected from ACC 362, 366, 368, 369; MAM 368 or 370. Students electing the Business Information Systems sequence should be aware that the total credit hour requirement will exceed 54 hours in Business.

MINOR IN OFFICE ADMINISTRATION

- 24 hours required in Business (ACC, FAL, MAM, BEA) or other areas specified below.
- Required courses: BEA 140, 240, 250, 255, 355; MAM 220, 221 or 323 or PSY 230; ACC 166. (Note: Some of these courses have required prerequisites.)

Admissions Standards: The admission standards for the Department of Business Education and Administrative Services are the same as the standards for the College of Business.

Business Education and Administrative Services Courses

100 BUSINESS AND ITS ENVIRONMENT	3	US-7	F.S
<i>Formerly BEA 111.</i>			

Influence of economic, social, and political pressures on business systems and operating procedures including markets, organization, management, and government regulation of business.

101 BUSINESS MATHEMATICS	3	F.S
<i>Formerly BEA 117.</i>		

Quantitative techniques used in solving business problems including interest, the mathematics of merchandising, break-even analysis, inventory control, averages, dispersion, probability theory, inference, and hypothesis testing.

105 DEVELOPMENT OF KEYBOARDING SKILLS	2	F.S
<i>Not for credit maj/min. Closed to students who have had typewriting instruction.</i>		

Development of touch keyboarding skills for use of computer terminals.

106 WORD PROCESSING I	3	F.S
<i>BEA 112 or cons inst.</i>		

Beginning course for development of skill in operating magnetic and electronic word processing text editors.

107 WORD PROCESSING II	3	S
<i>BEA 106 req.</i>		

Advanced word processing skills and knowledge with concentration on word processing applications, technology, and procedures.

112 BASIC FORMAT TYPING	2	F.S
<i>Not for credit maj/min. Formerly TYPEWRITING.</i>		

Presentation of keyboard; formatting of term paper, letters, tables, and reports emphasized.

113 OFFICE PRODUCTION TYPEWRITING	3	F.S
<i>Intensive building of speed and control with special emphasis placed on job simulation in all aspects of typewritten office communication.</i>		

122 PRINCIPLES OF SHORTHAND I	3	F
<i>Shorthand laboratory work req.</i>		

Gregg shorthand theory, dictation, and related knowledge.

140 BUSINESS COMMUNICATIONS 3 F.S

ENG 101 or equiv req. Formerly BEA 115.

Analysis of communications practices in business. Communication skills will be improved through solution of practical business situations.

213 PROBLEMS IN OFFICE PRODUCTION TYPEWRITING 3 S

BEA 113 or equiv req. Formerly BEA 214.

Development of ability at the expert level of typewriting skills, ability to prioritize work, and an acquaintance with current office technology.

222 ADVANCED SHORTHAND AND TRANSCRIPTION 3 S

BEA 122 req with grade of C or better or equivalent.

Formerly BEA 123 and 224. Laboratory work req.

Review of shorthand theory; emphasis on recording and transcription speed building; advanced dictation for transcription and mailable-letter production.

240 REPORT WRITING FOR BUSINESS 3 F.S

ENG 101 or equiv req. Formerly BEA 215.

Report writing techniques; use, form, and structure of different types of business reports.

250 RECORDS MANAGEMENT 3 F.S

Organization and management of records system including use of microfilm and computerization of records.

255 OFFICE SYSTEMS 3 F.S

BEA 106 or 113 or equiv req. Laboratory required.

Materials charge optional. Formerly BEA 211.

Study of decisions which must be made regarding efficient work flow in an office through experiences in an office simulation which includes the use of modern office machines.

260 FOUNDATIONS OF BUSINESS EDUCATION 2 S

Formerly BEA 361. Includes Clin Exp.

Historical background and current status of business education emphasizing professional responsibilities of teachers and principles of curriculum construction.

271 INSTRUCTIONAL TECHNIQUES FOR BUSINESS 3 F

Development of instructional techniques for training office employees. Learning theory, application of instructional techniques, and evaluation of results for office employee training plans.

300 CAREER PLACEMENT PROCEDURES 1 F.S

Sr standing req. Not for grad cr. Formerly BEA 315.

An orientation to the processes used in obtaining employment. Includes instruction concerning resumes, application letters, job sources, and interviews.

330 DECISION-MAKING FOR CONSUMERS 3 US-7 F.S

Also offered as HEC 330. Materials charge optional.

Survey of consumer problems, trends, and information. Topics include: insurance, housing, credit, life-styles, consumer protection, leisure, and achieving financial security.

335 SOCIETAL CONTEXT OF CONSUMER EDUCATION 3 F.S

BEA 330 or HEC 330 or HEC 117 req or conc reg.

Formerly BEA 340.

An analysis of the position of consumer education within the social system. The course will examine the institutional framework within which consumers function.

345 BUSINESS IN A MULTI-CULTURAL ENVIRONMENT 3 F.S

Formerly BEA 350.

Business operations in a multi-cultural environment. Relationship between the business process and social attitudes, values, ideologies, and customs with special emphasis on Asia, Latin America, and the Middle East.

351 CONCEPTS IN OFFICE INFORMATION PROCESSING 3 S

Formerly BEA 370.

Fundamental knowledge of office information processing systems: organization, implementation, management, work flow, word processing and word processing equipment, computer word processing, and the role of the secretary.

355 PRINCIPLES OF OFFICE ADMINISTRATION 3 F.S

BEA 255 and MAM 220 req. Not for grad cr. Formerly BEA 270.

Analysis of office functions and relationship to business organization; information handling and data processing; office design and layout; responsibilities of office administrators.

360 TOPICS IN STRATEGIES OF TEACHING BUSINESS EDUCATION SUBJECTS 2 F.S

260 or conc reg req. May be repeated if content different. Formerly BEA 390, 392, 394, 396. Includes Clin Exp.

Methods of teaching business education subjects including typewriting, shorthand, basic business, consumer economics, accounting, marketing and distributive education, word processing and current topics.

380 ORGANIZATION AND ADMINISTRATION OF VOCATIONAL COOPERATIVE EDUCATION PROGRAMS 3 F.S

Incl Clin Exp. Also offered as HEC 380 and IT 305.

Planning and organizing a cooperative program; emphasis on recruitment, selection of training stations, student placement, and operation of cooperative plan.

382 COORDINATION TECHNIQUES OF COOPERATIVE VOCATIONAL EDUCATION PROGRAMS 3 S

Incl Clin Exp. Also offered as HEC 382 and IT 306.

Coordination techniques needed for high school and post-secondary teacher coordinators in integrating classroom activities with daily employment.

398 PROFESSIONAL PRACTICE: INTERNSHIP IN OFFICE ADMINISTRATION 1-14 F.S

Office Administration maj; sr standing; 2.5 GPA in business courses; 2.2 overall GPA; and cons internship coord req. Enrollment for two consecutive semesters req to receive 14 credit hrs.

On-the-job experience involving planning, organizing, and directing work activities; developing controls to assure compliance with policies and procedures in the various areas of office administration.

FINANCE AND LAW (FAL)**328 Williams Hall**

Chairperson: Geoffrey A. Hirt.

Faculty: Professors: Crepas, Ficek, Potter. Associate Professors: Hirt, Kruse, Loy, Massin, Naidu, Varner. Assistant Professors: Bubnys, Byler, Gardner, Henry, Massa, McGuire, Mills, Robb, Scheu. Instructors: Alderson,

Subash, Sunderman, Taheri, Trefzger, Upstrom. Faculty Assistant: Dobosz, Williams.

The department offers a Comprehensive Business Administration major, providing a broad background for a managerial or administrative career. Students with an interest in Business Information Systems may elect this sequence to gain a foundation in the interrelationships between administration and information systems.

The Comprehensive Finance major provides a knowledge base and skills appropriate for a wide variety of functional and managerial activities that require financial expertise. The financial world touches most organizations, profit or nonprofit, which have activities involving banking, insurance, real estate, investments, managerial finance, budgeting, and international finance. Students with an interest in insurance may elect the insurance sequence.

Business Administration Programs

Degree Offered: B.S.

COMPREHENSIVE BUSINESS ADMINISTRATION MAJOR

- 54 hours required in Business (FAL, ACC, BEA, MAM).
- Required courses (33 hours in FAL, ACC, BEA, MAM); MAM 100, FAL 210, 240; ACC 131, 132, 166; BEA 240; MAM 220, 227, 230, 385. In addition, ECO 100 and 101 and MAT 121 or 115 must be completed. Fifteen (15) of these 33 hours must be taken in residence at Illinois State University.
- Elective Courses: A total of 21 hours of electives of which no more than nine hours may be taken in any one subject area: Finance, Business Law, Accounting, Management, Marketing or other area approved by adviser. FAL 140 may not be included. Within the 21 hours of electives, a student must take nine hours from one subject area and six from two others; or six hours from three areas and three hours from a fourth. At least nine of the 21 hours of electives must be taken at the 300 level.
- At least 42 hours outside the College of Business and in subject areas other than business (FAL, ACC, BEA, MAM), economics, and administration must be included toward the 120 hours for graduation.

Business Information Systems Sequence: Students electing the Business Information Systems Sequence must fulfill all of the requirements for the Comprehensive Business Administration Major; however, the following courses are required: ACC 160, 261, 266, 362, and 366. These courses will be applied toward the 21 hours of required business electives, leaving 6 hours of electives to be selected outside ACC.

Community college students who expect to major in Business Administration at Illinois State should consult the academic adviser of the Department of Finance and Law at Illinois State near the end of their freshman year.

MINOR IN BUSINESS ADMINISTRATION

- 20 hours required in Business (FAL, ACC, and MAM).
- Required courses: FAL 210, 240; ACC 131; MAM 220, 230.
- 5 hours selected from ACC 132, the data processing courses offered in Accounting and those FAL and MAM courses that are available for credit to Business Administration majors. ECO 131 is also acceptable as an approved minor elective.

Academic Policies: All majors in the Department of Finance and Law must meet the academic, admission, and transfer policies of the College of Business.

Finance Program

Degree Offered: B.S.

COMPREHENSIVE FINANCE MAJOR

General Finance Sequence: 54 hours required in Business (FAL, ACC, BEA, MAM). Required courses (45 hours in FAL, ACC, BEA, MAM): FAL 210, 218, 240, 242, 340 or 341, 349; ACC 131, 132, 166; BEA 240; MAM 100, 220, 227, 230, 385. In addition, ECO 100, 101, and MAT 121 or 115 must be completed. Elective courses (9 hours): 9 hours selected from FAL 241, 252, 260, 340 or 341 (whichever is not used to fulfill major requirements), 343, 344, 351, 354; ECO 239; or appropriate courses approved by the departmental adviser.

Insurance Sequence: 54 hours required in Business (FAL, ACC, BEA, MAM). Required courses (54 hours): FAL 210, 218, 240, 242, 252, 340 or 341, 349, 351, 354; ACC 131, 132, 166; BEA 240; MAM 100, 220, 227, 230, 385. In addition, ECO 100, 101, and MAT 121 or 115 must be completed.

At least 24 of the 54 hours required for the major must be taken in residence at Illinois State University. The senior year's work (last 30 hours), with minor exceptions, must be taken in residence at Illinois State University. At least 42 of the total 120 hours offered for graduation must be taken in courses other than business (FAL, ACC, BEA, MAM), economics, and administration.

Finance and Law Courses

140 PERSONAL FINANCE 3 F.S

Not for credit maj min in the College of Business.

Examines key financial decisions made by individual consumer. Career selection, personal record keeping, budgeting, use of credit, insurance, income taxes, and investment.

210 LEGAL ENVIRONMENT OF BUSINESS 3 F.S

Jr. standing req. Formerly BUSINESS LAW I.

Study of the economic, business, political, and social values or forces which cause law related to business activities to come into existence, change, and adapt. Includes legal history, philosophy, and the judicial processes related to contracts, agency, sales of goods, and secured transactions.

211 COMMERCIAL LAW 3 F.S

FAL 210 req. Formerly BUSINESS LAW II.

Legal aspects of organizing, operating, and liquidating a business organization. Covers the concept of ownership of property, commercial paper, partnerships, corporations, insurance, and bankruptcy. Business ethics and management's responsibility under law is integrated.

218 FINANCIAL MARKETS 3 F.S

ACC 131, ECO 100, 101 req. Not for cr if had FAL 241.

Not for cr if had FAL 241.

Analysis of the participants, structure and functions of the major domestic and international financial markets.

240 BUSINESS FINANCE 3 F.S

MAM 100, ACC 132 and ECO 101 req.

Principles and problems of planning and managing assets of business. Formulation, acquisition and utilization of funds and capital structure examined.

242 INVESTMENTS	3	F.S	
<i>FAL 240 req.</i>			
A survey of investment media, concepts, and techniques to provide an understanding of the investment process in the economic and financial environment.			
247 MANAGEMENT OF FINANCIAL INSTITUTIONS	3	F.S	
<i>FAL 218, 240 req.</i>			
Study of financial institutions as business firms; industry structure; role of reputation; investment and financing policies.			
252 PROPERTY AND LIABILITY INSURANCE	3	F.S	
<i>FAL 210, 240 req. Formerly FAL 352.</i>			
Introduction to insurance principles, with emphasis on risk in the fire, marine, bond and casualty areas.			
260 REAL ESTATE	3	F.S	
<i>FAL 210 req.</i>			
Principles of real estate, including real estate law, property description and transfer, appraisal, investments, leases, salesperson's and broker's functions, future social and economic implications for real estate.			
311 GOVERNMENT REGULATION OF BUSINESS	3	F.S	
<i>ECO 101 req.</i>			
Rules and regulation of mergers, monopolies, pricing, advertising, securities, food and drugs, unfair trade practices, utilities, and transportation.			
312 INTERNATIONAL BUSINESS LAW	3	S	
<i>FAL 210 req.</i>			
Case study in international business law. Problems of jurisdiction, contract enforcement, government regulations, and tax. Comparative law with emphasis on Europe, Islam, Soviet Union, and the United States.			
340 SHORT-TERM FINANCIAL MANAGEMENT	3	F.S	
<i>FAL 240 req.</i>			
Analysis of working capital management; cash budgeting; financial analysis and planning; short-term financing decisions.			
341 CAPITAL INVESTMENT DECISION MAKING	3	F	
<i>FAL 240 req. Bus maj only.</i>			
Theory of capital management, evaluation of risks, determination of capital structures, measure of costs and returns, and allocation of capital.			
343 SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT	3	F.S	
<i>FAL 240, 242 req. Bus maj only.</i>			
Characteristics of financial assets and markets; evaluation of securities; selecting and combining securities into portfolios; portfolio models and measurement of portfolio performance.			
344 INTERNATIONAL FINANCIAL MANAGEMENT	3	F	
<i>FAL 240 req. Bus maj only.</i>			
Financial management of multinational corporations, including balance of payments, foreign exchange markets and international money and capital markets.			
349 ADVANCED FINANCIAL THEORY AND PROBLEMS	3	F.S	
<i>FAL 240, 340 or 341 req. Additional 6 hr finance rec.</i>			

Finance maj only. Not for grad cr or for MBA students.
An advanced coverage of financial theory and its applications to cases and problems. Specific area of emphasis varies according to the interests of students and faculty involved.

351 LIFE AND HEALTH INSURANCE	3	F.S
<i>FAL 252 req.</i>		

Personal and business risks. Principles of life and health insurance and their applications.

354 RISK MANAGEMENT	3	F.S
<i>FAL 351 req. Bus maj only.</i>		

Management's role in treating non-speculative risks to which business is exposed. Emphasis on recognition, evaluation, and treatment of risks.

375 LAW FOR ACCOUNTANTS	1	S
<i>24 semester hours of accounting including ACC 337 req. FAL 211 or conc enroll req. Not for graduate credit.</i>		

Accountants' legal responsibilities, anti-trust, bankruptcy, federal securities regulation, insurance, regulation of employer and employee relationships, secured transactions, suretyship, and other topics for the professional accountant.

398 PROFESSIONAL PRACTICE: BUSINESS ADMINISTRATION OR FINANCE INTERNSHIP	1-6	
<i>Formerly BUA 398.</i>		

MANAGEMENT AND MARKETING (MAM)

329 Williams Hall

Chairperson: Ahmed A. Abdel-Halim.

Faculty: Professors: Abdel-Halim, Brabb, Couch, Grimm, Kerber, Mohr. Associate Professors: Chitgopekar, Eckrich, Ferguson, Graeff, Graf, Herlekar, Radhakrishnan, Robinson, Tcheng, Unni, Wilkinson. Assistant Professors: Brueck, Dumler, A. Eshghi, G. Eshghi, Fazel, Glisan, Hemmasi, Kauffold, Lewis, Mazen, Meadow, Mersha, Perrachione, Schnake, Smith. Instructors: Burgauer, DeVore, Evans, Frank, Gundersen, Head, Henderson, Hendricks, Hunt, Lee, Porkorney, Schori, Stone, Wasserman.

Management and Marketing Programs

Degrees Offered: B.S. in Management and B.S. in Marketing.

The Management major offers programs to students interested in professional Management careers in business, industry, or government. Three sequences allow students to concentrate on skills needed by general managers (Organizational Management Sequence), or by specialists in quantitative decision processes (Operations Management Sequence), or in management use of the computer (Management Information Systems Sequence). The degree in Marketing is a flexible degree that qualifies graduates for a variety of leadership positions in the distribution and exchange of goods and services in support of consumer welfare in both profit and nonprofit organizations.

COMPREHENSIVE MANAGEMENT MAJOR

- 54 hours required. At least 24 of the required hours in each sequence at the 200 and 300 level must be taken in residence at Illinois State University.
- Required courses (39 hours in MAM, ACC, BEA, FAL): MAM 100, 215, 220, 221, 227, 230, 385; ACC 131, 132, 166; BEA 240; FAL 210, 240. In addition, ECO 100, 101, and MAT 121 or 115 must be completed.
- Additional required courses (depends on sequence chosen).
- Elective courses (depends on sequence chosen).
- The senior year's work, with minor exceptions, must be taken in residence at Illinois State University.
- At least 42 hours of the total 120 hours offered for graduation should be in courses other than business (ACC, BEA, FAL, MAM), economics, and administration.

Organizational Management Sequence: 54 hours required. At least 24 of the required hours at the 200 and 300 level must be taken in residence at Illinois State University. Required courses (45 hours in MAM, ACC, BEA, FAL): MAM 100, 215, 220, 221, 227, 230, 323, 325, 385; ACC 131, 132, 166; BEA 240; FAL 210, 240. In addition, ECO 100, 101, and MAT 121 or 115 must be completed. Elective courses (9 hours) selected from: MAM 301, 324, 326, 381, 389 (Business and Society) 398; ACC 230; COM 227, 329; ECO 225, 326; FAL 217 or ECO 239; FAL 311; PSY 365.

Operations Management Sequence: 54 hours required. At least 24 of the required hours at the 200 and 300 level must be taken in residence at Illinois State University. Required courses (45 hours in MAM, ACC, BEA, FAL): MAM 100, 215, 220, 221, 227, 230, 327, 385; ACC 131, 132, 166, 230; BEA 240; FAL 210, 240. In addition, ECO 100, 101, and MAT 121 or 115 must be completed. Elective courses (9 hours) selected from MAM 301, 323, 326, 329, 368, 381, 398; ACC 332; ECO 333; FAL 217 or ECO 239; FAL 311.

Management Information Systems Sequence: 54 hours required. At least 24 of the required hours at the 200 and 300 level must be taken in residence at Illinois State University. Required courses (48 hours in MAM, ACC, BEA, FAL): MAM 100, 215, 220, 221, 227, 230, 301, 370, 385; ACC 131, 132, 166, 261; BEA 240; FAL 210, 240. 6 hours of electives selected from ACC 226, 362, 366; ACS/MAM 344, ACS 345; MAM 232, 325, 327, 368, 389 (Business and Society), 398.

COMPREHENSIVE MARKETING MAJOR

- 54 hours required in Business (MAM, ACC, BEA, FAL).
- Required courses (45 hours in MAM, ACC, BEA, FAL): MAM 100, 220, 227, 230, 231, 232, 338, 339, 385; ACC 131, 132, 166; BEA 240; FAL 210, 240. Twenty-four of these 45 hours must be taken in residence at Illinois State University. In addition, ECO 100 and 101 and MAT 121 or 115 must be completed.
- Elective courses (9 hours) selected from MAM 233, 234, 235, 238, 289 (Promotion Strategy), 289 (Product and Price Strategy), 329, 333, 334, 335, 389 (Business and Society). In addition, the student may elect to use one of the following courses: GEO 330, 336; POS 232, 312; SAS 260, 267, as part of the 9 hours of electives above; however, no more than 3 hours of electives may be outside the Management and Marketing department.
- The senior year's work (last 30 hours), with minor exceptions, must be taken at Illinois State University.
- At least 42 hours of the total 120 hours offered for graduation should be in courses other than business (ACC, BEA, FAL, MAM), economics, and administration.

Academic Policies: All majors in the Department of Management and Marketing must meet the academic, admission, and transfer policies of the College of Business.

Management and Marketing Courses**100 BUSINESS AND ECONOMIC STATISTICS 3 F.S**

MAT 110 or 120 req. Not for credit if had ECO 131.

Application of statistical methods to business. Averages, dispersion, probability theory, frequency distributions, inference, hypothesis testing, regression, nonparametric tests.

215 INTRODUCTION TO MANAGEMENT SCIENCE MODELS 3 F.S

MAM 100, MAT 121, ACC 166 req. Not for credit if had MAM 301 prior to Spring 1979.

Provides a basic understanding of the formulation and application of quantitative models in managerial decision-making. General topics include: linear programming, dynamic programming, networks and simulation.

220 BUSINESS ORGANIZATION AND MANAGEMENT 3 F.S

ECO 101 req.

Organization theories and the role of managers as leaders. Planning and control systems, decision-making, and human considerations.

221 ORGANIZATIONAL BEHAVIOR AND ADMINISTRATION 3 F.S

MAM 220 req. Not for credit if had PSY 376 or BUA or MAM 421.

Organization analysis focusing on motivation, perception, communication, coordination, and change. Administrative problems examined by theories of individual and group behavior.

227 PRODUCTION MANAGEMENT 3 F.S

MAM 100, 220 req.

Operations of production plants. Methods analysis and work measurement, inventory control, quality control, facilities layout, machines and maintenance.

230 BASIC MARKETING 3 F.S

ECO 101 or FAL 217 req.

A managerial approach to the study of concepts, activities, and decisions that relate to the facilitation of exchange between buyers and sellers in both business and non-business organizations.

231 CONSUMER BEHAVIOR 3 F.S

MAM 100, 230 req.

Determinants of consumer behavior. Influence of socio-psychological variables on the formation and change of attitudes, consumption, and purchasing behavior.

232 MARKETING RESEARCH 3 F.S

MAM 100, 230 req.

The role of research in marketing decision making and the systematic steps involved in conducting a marketing research project.

233 ADVERTISING 3 F.S

MAM 230 req.

Principles of advertising as explained from a business and consumer point of view. Emphasis on advertising as a factor in marketing.

234 PROFESSIONAL SELLING 3 F.S

MAM 230, 231 or conc reg req.

To describe personal selling as a marketing activity and to cover effective selling methods. Application of selling theories to the marketing concept.

235 MARKETING CHANNELS	3	F	
MAM 230 req.			
Theoretical concepts of marketing channel structure and management and their practical applications.			
238 INTERNATIONAL MARKETING	3	F	
MAM 230 req.			
Understanding the marketing environment and developing marketing strategies across national boundaries. The political, economic, and cultural variables which influence such strategies are identified. Recent cross-cultural research and real world cases clarify concepts and their application.			
301 DECISION THEORY	3	F	
MAM 100 req.			
Behavioral and quantitative factors in business decision-making. Emphasis on quantitative methods of making decisions under conditions of uncertainty.			
319 SEMINAR IN QUANTITATIVE METHODS	3	S	
MAM 215, 227 and Sr standing req. May be repeated once if content different. Not for grad cr or MBA students.			
Specialized study of a selected topic in the field of quantitative methods for advanced students.			
323 HUMAN RESOURCES MANAGEMENT	3	F.S	
MAM 220 req.			
Principles and procedures relating to manpower management, including staffing, appraisal, training, compensation, and other programs for business and other organizations.			
324 INDUSTRIAL RELATIONS MANAGEMENT	3	S	
MAM 220 and ECO 100 req.			
Managing employment relations and work conditions. Emphasis on negotiating, administering labor agreements, and impact of collective bargaining on managerial practice.			
325 MANAGERIAL PLANNING AND DECISION MAKING	3	F.S	
MAM 220 plus three (3) additional hours of Management req. Bus maj only.			
A consideration of managerial decision making in organizations. Specific emphasis on strategic program and operational level planning decisions, techniques, and systems.			
326 SMALL BUSINESS MANAGEMENT	3	F.S	
2.0 GPA in a Business maj; sr. or grad standing. Bus maj only.			
Field program designed to familiarize the student with the problems of small business owners and/or operators. The student acquires firsthand knowledge and experience by dealing with on-going businesses.			
327 OPERATIONS MANAGEMENT	3	S	
MAM 227; MAT 121 req. Not for graduate credit for MBA students.			
Advanced considerations of decision-making tools applied to manufacturing and other operational areas. Case analyses place emphasis on production management problems.			
329 PURCHASING POLICIES AND PROCEDURES	3	S	
ECO 100, ACC 131 req.			
Purchase of materials, supplies, and equipment for industry, government, and other institutions. Organization for purchasing, internal requisitioning, and stock control.			
333 ADVERTISING MANAGEMENT	3	S	
MAM 230, 231, 232, 233 req.			
The course emphasizes the major perspectives in advertising practice along with the techniques of behavioral and management sciences. Case studies are used with project reports.			
334 SALES MANAGEMENT	3	S	
MAM 230, 231, 232, 234 req. Not for graduate credit for MBA students.			
Application of functions of management to selling structure and sales problems of companies. Behavioral and quantitative disciplines used in case studies.			
335 RETAILING MANAGEMENT AND PROMOTION	3	S	
MAM 230, 231, req. Not for graduate credit for MBA students.			
Management and operation of retail firms. Emphasis will be on location, pricing, inventory and promotion.			
337 INDUSTRIAL MARKETING	3	S	
MAM 230, 231, 232.			
Focuses upon the scope and nature of industrial marketing, from a managerial decision making framework.			
338 MARKETING MANAGEMENT	3	F.S	
MAM 230, 231, 232 req. Not for graduate credit for MBA students. Bus maj only.			
Development and evaluation of the marketing plan. Includes analysis of actual and hypothetical cases. A term project will be included.			
339 SEMINAR IN MARKETING	3	F.S	
MAM 230, 231, 232, 338 or conc reg req. May be repeated once if topic and inst different. Bus maj only.			
A specialized study of selected topics in the field of marketing for advanced students.			
340 SEMINAR IN MANAGEMENT	3	F.S	
MAM 220, 221, 227, ACC 166. May be repeated once if topic different. Not for grad cr.			
Specialized study of a selected topic in the field of management for advanced students.			
344 DISCRETE SYSTEMS SIMULATION	3	F	
ACS 169 or 273 or 274; MAT 121 or 146; a 1 sem course in Prob/Stat req. Also offered as ACS 344.			
Problem solving using discrete simulation languages and techniques. Applied queuing theory, pseudo-random numbers, model verification and validation, experimental design.			
350 INTERNATIONAL MANAGEMENT	3	F.S	
MAM 220, 230; FAL 240. Not for grad cr.			
Analysis of managerial decision making for planning, organizing, and controlling the functions, operations, and resources of multinational corporations.			
368 BUSINESS SIMULATION	3	S	
MAM 100, ACC 166 or equiv req. Also offered as ACC 368.			
Applications of computer simulation techniques to business problems. Emphasis on systems approach to model building, analysis, and interpretation.			
370 MANAGEMENT INFORMATION SYSTEMS	3	S	
MAM 220, ACC 131, 166, or equiv req. MAM 230 and FAL 240 rec. Not for credit toward MBA degree.			
A study of management information systems with emphasis on the responsibilities of management in the creation,			

control, and utilization of the information systems which support managerial decision-making.

381 PROJECT SUPERVISION 3 F,S

*MAM 220 and selection as 220 Section Manager req.
MAM 221, 227, and Sr. standing rec. For undergraduate credit only.*

Experience in supervising group projects and activities. Training and development problems, performance evaluation, and project planning and control.

385 PROBLEMS IN BUSINESS 3 F,S

MAM 100, 220, 230, ACC 132, FAL 240 req. Senior status. Bus maj only. Not for graduate credit. Formerly BUA or MAM 285.

Integration of the decision-making processes involved in each of the major functional areas of business.

**398 PROFESSIONAL PRACTICE:
INTERNSHIP IN MANAGEMENT
AND MARKETING 1-6**

COLLEGE OF EDUCATION

Dean: William D. Dunifon, 533 DeGarmo Hall.

The College of Education includes the Departments of Curriculum and Instruction, Specialized Educational Development, Educational Administration and Foundations, the Office of Clinical Experiences and Certification Processes, and the Office of Research, Development, and Field Services. The College of Education has three broad missions: (1) Vigorous preparation of quality instructional, supervisory, and administrative personnel to serve in all sectors of the economy in various capacities and at all levels of teaching and learning; (2) Systematic study, research and evaluation of societal concerns within diverse cultural contexts and with the concomitant utilization of that research for society's benefit; and (3) Active involvement in service activities designed to improve the quality of life through education and to ensure the necessity of existing programs and to identify new directions for the College. The College administers clinical experiences in education and an admission-retention program in undergraduate teacher education in addition to offering a wide range of graduate programs, including masters and doctoral programs in Curriculum and Instruction, Educational Administration, and Special Education as well as an advanced certificate in Educational Administration.

CURRICULUM AND INSTRUCTION (C&I)

232 DeGarmo Hall

Chairperson: John V. Godbold.

Faculty: Professors: Baer, Bettis, Brown, Cantlon, Crotts, Edwards, Fisher, Fitch, Frinsko, Godbold, Goeldi, Goodall, Hicklin, Huser, Irving, Kachur, Kennedy, Lazerson, Lewis, Lorber, Madore, Pierce, Rhodes, Slan, Waimon, Youngs, Zeller. Associate Professors: Franks, Galler, Graef, Mincey, Morris, Mungo, Piland, Taylor, Venerable. Assistant Professors: Burcalow, Feicke, Hager, Howard, Moreland, Natale, Rozum, Schultze, Short.

Early Childhood Education Programs

Degrees Offered: B.A., B.S., B.S. in Ed.

Students are admitted to Early Childhood Education on a selective basis. Most professional coursework, taken through Core units, is ordinarily started during the second semester of the sophomore year or the first semester of the junior year. Each Core unit is for an entire semester and is a unified program of classroom experiences taught by a team of instructors from C&I and other departments. Each Core covers a common content: knowledge about physical, cognitive, social, and creative development of children; knowledge about school curriculum and organization; and direct teaching experience with young children. The final semester is spent off campus in a Clinical Center which provides a wide variety of direct experiences with children.

Concurrently with each Core, students will take some of the additional required courses. Specific information on admission policies and practices for Early Childhood Education is available from the Department of Curriculum and Instruction.

COMPREHENSIVE EARLY CHILDHOOD EDUCATION MAJOR

- Required courses (53 hours): C&I 260, 261, 262, 263, 300, 301, EAF 331; HEC 231; PSY 347; SED 145. (Note: Students enrolled in C&I 260 take C&I 300 and SED 145 concurrently. Students enrolled in C&I 261 take PSY 347 and HEC 231 concurrently. Students enrolled in C&I 262 take C&I 301 concurrently. Students enrolled in C&I 263 take EAF 331 concurrently.)
- In addition to the major requirements listed above, students should include the following courses in 48 hours of University Studies for compliance with state certification requirements: ENG 101, COM 110, HEC 106, PSY 111, PAS 115. Each student should consult the **Teacher Education Requirements** section of this catalog for further understanding of state general education standards for certification in Early Childhood Education.

Electives in Early Childhood Education: In addition to courses required for the major and the coursework required for University Studies, the student will take general elective courses. A student, in consultation with a departmental adviser, should select a sufficient number of electives so that the total amount of credit equals the 120 hours required for graduation. Electives may be selected from the total catalog of courses, provided the student meets the prerequisite for the course and has the approval of an adviser. From these courses, a student might concentrate in a specific field of study, or might elect additional specialized professional courses in Elementary Education, Home Economics, Psychology, and Special Education. If a student elects to concentrate in a specific field of study, the student may take a minor or second major by following the appropriate program requirements as stated in this catalog.

MINOR IN EARLY CHILDHOOD EDUCATION

This minor is restricted to students who are Elementary Education and Home Economics Education majors.

- Required courses (number of hours, not to exceed 28, will depend on the student's major field and electives) selected from each of the following seven areas as part of the entitlement program leading to certification: early childhood (below 6 yrs).

1. 3 hours in Child Growth and Development selected from C&I 210; HEC 114 and 250, or 307 (Note: Both HEC 114 and 250 must be taken to fulfill the requirement). Elementary Education majors who have had C&I 250, 251, and 252 are excused from this requirement.
2. 3 hours in History and Philosophy of Early Childhood Education, EAF 331.
3. 6 hours in Types of Instructional Methods and Management selected from C & I 300, 301; HEC 308.

4. 2 to 4 hours in Health and Nutrition for the Young Child selected from HEC 106, 116 or 314.
5. 3 hours in Child, Family, and Community Relationships selected from SED 363; HEC 231.
6. 5 to 8 hours of Practicum in a Pre-School Program in either C&I 263, or 399 (5 to 8 hours) in the above departments.
7. Students must also complete one course in each of the following areas: a. Survey of Exceptional Children, SED 145; PSY 346; b. Development of Language in Young Children, PAS 115, 320; c. Early Childhood Assessment, SED 389 (Educational Assessment of the Young Handicapped Child), 410; d. Elementary School Curriculum and Organization (or Early Childhood Curriculum and Organization) C&I 301, 405, 488; HEC 308.

Elementary Education Program

Degrees Offered: B.A., B.S., B.S. in Ed.

ACADEMIC POLICIES Usually, more students desire to enroll in the beginning C&I courses in the Elementary Education CORE-Program than can be accommodated during any given semester. Therefore, students are enrolled on a selective basis. Specific information on enrollment policies is available from the Elementary Education CORE-Program Coordinator in the Department of Curriculum and Instruction.

A minimum cumulative GPA of 2.2 effective fall 1983 and of 2.4 effective fall 1984; a minimum of 45 semester hours credit completed; and a minimum of C in ENG 101 and in COM 110 are required of all students before enrolling in the beginning C&I courses in the Program (C&I 103, Introduction To Elementary Education, and C&I 250, CORE I - THE ARTS). Prospective transfer students are urged to file an Application for Admission to ISU early. (See Admission Section of this catalog.) All students with 45 hours or more (transfers, re-admits, or change-of-majors) must contact the Program Coordinator prior to any registration period to determine their eligibility for enrolling in courses in the Program. Advanced registration is encouraged. Beginning fall 1984, all prospective students, including transfer students, are encouraged to have ACT scores on file with the University.

COMPREHENSIVE ELEMENTARY EDUCATION MAJOR

The CORE Program:

- 52 hours required. Part of entitlement program leading to certification: elementary K-9.
- Required courses: C&I 103, 250, 251, 252, 253; EAF 228 or 231 or 235.

Competency in Basic Skills: All students are required to pass Basic Skills Competency Examinations. (See coordinator of Elementary Education for specific details.)

The student must take C&I 103, the purpose of which is to acquaint the student with the personal qualifications and academic requirements necessary for teaching. It will acquaint students with the academic policies and procedures of the University and assist them in making basic course selections to satisfy University Studies requirements, general education certification requirements, and major requirements in professional education. The Basic Skills Competency Examinations also will be administered in this course.

The formal coursework is taken through the on-campus

CORE units. This work is ordinarily started during the second semester of the sophomore year or the first semester of the junior year. Each on-campus CORE unit is 12-14 hours of course work, and lasts for a semester. A CORE is a unified program of course work and classroom experiences taught by a team of Elementary Education teachers and instructors from other departments and represents three major curriculum areas: CORE I — the Arts, CORE II — Communication Skills, and CORE III — the Natural and Social Sciences. The student enrolls for these in sequence. Each CORE covers: (1) a common content, such as the arts; (2) knowledge about the physical, cognitive, social and creative development of children; (3) knowledge about the school curriculum and organization; and (4) pre-student teaching clinical experiences. The final semester is spent off campus in a Clinical Center. This provides a wide variety of direct experience with children and adults in various socio-economic and ethnic groupings. With one exception all major work is contained within the CORE units, but the students will be assisted in planning other coursework to fulfill the various degree requirements. The course requirement not contained in the CORE is EAF 228 or 231 or 235.

Electives in Elementary Education: In addition to the courses required for the major in the CORE Program and the course work required in University Studies, the student will have general elective courses from which to choose. A student, in consultation with a departmental adviser, should select a sufficient number of electives so that the total amount of credit equals the requirements for graduation. Electives may be selected from the total catalog of courses provided the student meets the prerequisites for the course and has the approval of an adviser. From these courses, a student might concentrate in a specific field of study or take a minor or second major by following the appropriate program requirements as stated in this catalog.

Junior High/Middle School Education Program

Degrees Offered: B.A., B.S., B.S. in Ed.

COMPREHENSIVE JUNIOR HIGH/MIDDLE SCHOOL EDUCATION MAJOR

Professional Requirements:

- 30 hours in Professional Education required. Part of entitlement program leading to certification: Elementary K-9.
- Required courses: C&I 130, 131, 132, 210, 233, 333, 390, 395, 399 (8 hours of Student Teaching); EAF 228 or 231 or 235; SED 306.

Program Requirements: These requirements may, in very large part, be met by course work taken for University Studies and to meet certification requirements falling under General Education.

- Language Arts (9 hrs.): ENG 101; COM 110; ENG 145 or 247.
- Humanities (8 hrs.) chosen from: art, music, philosophy, languages and must include 1 hr. in art and 1 hr. in music.
- Natural Science (7 hrs.) to be chosen from: botany, zoology, chemistry, physics, geology, general science, biology, physiology, physical geography.
- Mathematics (5 hrs.).
- Social and Behavioral Sciences (12 hrs.): PSY 111; POS 105 or US history plus constitution test; 6 hrs. chosen

from history, political science, sociology, economics, cultural geography.

- Health and Physical Education (4 hrs.): BSC 145; HPR 180.
- Applied Sciences (4 hrs.), chosen under advisement from HEC and IT, or other courses included in University Studies Group 7.

Specialization Requirements:

- Appropriate preparation in one or more areas of teaching specialization listed below is required.

The major in Junior High/Middle School Education, a program of professional development for those who wish to teach at the junior high/middle school level of education, consists of three broad areas of preparation. These are: General Education, requirements for certification which are listed in the section on Teacher Education; Professional Education, requirements which are listed above; and Teaching Specialization requirements, the character of which are described below. Upon satisfactorily completing this program, the student will meet the State of Illinois requirements for Elementary certification (K-9). In addition, graduates may qualify for an Illinois Standard High School Certificate (6-12) by fulfilling the requirements of ISBE Document 1.

An adviser in the Department of Curriculum and Instruction will assist the major in planning coursework in behalf of one or more areas of teaching specialization. The individual may prepare for teaching in any of the typical subject areas of the junior high/middle school. Designed consistent with the instructional needs of junior high/middle school teachers, the areas of teaching specialization from which the major may choose include: language arts-reading, social studies-reading, language arts-social studies, science, mathematics, physical education, health, home economics, industrial arts, art, music, reading. Work in the language arts-reading, social studies-reading, language arts-social studies, and science areas will range from 30 to 38 hours. In all other fields, preparation will consist of 20 to 27 semester hours' work, depending on whether the given field is the student's first or second area of specialization. Unlike preparation for senior high school teaching, the junior high/middle school demands broad preparation across the several disciplines that constitute a subject area at this level. To meet these broad field demands in their selected teaching areas, pre-service teachers in the Illinois State program are guided through coursework that is specifically attuned to the curriculum requirements of the junior high/middle school.

A primary feature of the Junior High/Middle School Program is the experience that the pre-service teacher gains in working with early adolescent youth in the school environment. Simultaneously with the coursework in the categories described above, the student in the program engages in a variety of clinical experiences working with pupils in area junior high/middle schools. In fulfilling its strong commitment to early adolescent education, Illinois State University—one of only two universities in the State with programs for the special preparation of teachers for the junior high/middle school—works closely with these schools to provide maximal opportunities for majors in the development of teacher-pupil interaction skills. The prescribed and voluntary internship activity aids the student in making the transition from pre-service to in-service teaching much more effectively and expeditiously. This activity and the other features of this specialized program combine to provide a comprehensive and thorough undergraduate program for teachers as specialists at a school level where few exist.

Certification standards and standards for school recogni-

tion by the Illinois State Board of Education relating to the qualifications of teachers as well as those for member schools of the North Central Association are met and considerably exceeded by graduates of the Junior High/Middle School Teacher Education Program at ISU.

Urban Education Study: Students wishing preparation for working with urban populations may elect to complete Urban Education. Urban Education is not a certified area but is an elective option available to students in elementary education, junior high school, special K-12, high school, early childhood, and special education programs. Course content and clinical experiences are individually designed in keeping with the specific teacher education program of the student.

The following includes both on and off campus coursework experiences in both school and non-school educational settings, and in agency activities: C&I 232 - Education in the Inner City: An Introduction (3 hrs.), C&I 312 - Urban Field Experiences (6 hrs. off-campus), and on a rotating schedule C&I 318 - School and Community (3 hrs. off-campus), C&I 332 - Education in the Inner City (3 hrs. off-campus) and C&I 355 - Alternatives in Education (3 hrs. off-campus). The following substitutions can be made: Secondary Education students receive credit for 200.03 in the professional sequence, and Special Education majors receive credit for C&I 295 - Senior Seminar. Secondary Education students must complete the program prior to student teaching in order to receive credit for 200.03. Students in all other programs may complete the program before or after student teaching.

Curriculum and Instruction Courses

103 INTRODUCTION TO ELEMENTARY EDUCATION	1	F.S
<i>Elem Educ maj only. 2.2 cumulative GPA beginning fall 1983 and 2.4 beginning fall 1984 and 45 sem hrs req. Min C in ENG 101 and in COM 110 req. Conc reg in C&I 250 req. Cr/No Cr only.</i>		
Personal qualifications, attitudes, and academic requirements for teaching are examined. Basic skills competency examinations are included.		
110 INTRODUCTION TO MULTICULTURAL EDUCATION	3	US-7 F.S.Summer
Exploring the theories and processes for understanding and working with culturally diverse groups in educational settings and the implications for programming at all levels.		
130 INTRODUCTION TO EARLY ADOLESCENT EDUCATION	1	F.S
<i>Incl Clin Exp.</i>		
Develops the distinctive role of early adolescent education in the public school, contrasted with elementary and senior high school education.		
131 THE EARLY ADOLESCENT IN THE SCHOOLS	1	F.S
<i>C&I 130 or conc reg req. Incl Clin Exp.</i>		
Provides the pre-service teacher of early adolescent youth with an understanding of the unique characteristics of junior high/middle school pupils. A practicum experience is required.		

132 THE TEACHER IN THE JUNIOR HIGH/ MIDDLE SCHOOL	1	F.S
<i>C&I 130, 131, or conc reg req. Incl Clin Exp.</i>		
Provides an overview of the unique roles and responsibilities		

ties of the teacher of early adolescents in a classroom setting.

200 PROFESSIONAL SEQUENCE 1-8 F.S

C&I 210 or PSY 215 (grade of C or better req) or conc reg req. Incl Clin Exp. This sequence combines the elements of and is comparable to content of the courses-C&I 215, C&I 216, and SED 218. Two options are available in the program. Students, with C&I secondary faculty consent, may enroll in C&I 200 and work independently. Grading for this option is Credit/No Credit. As a second option, the Sequence is broken into class segments of 200.01, 200.02, (comparable to C&I 216) 200.03, (comparable to C&I 215) and 200.04 (comparable to SED 218). The first three (200.01, 200.02 200.03) must be taken sequentially. The segment 200.04 may be taken at any stage of the program. **Grading for the second option is on an A-F system.** With either option, students must complete 6 hrs. of identified sections prior to or concurrently with the departmental methods courses. Students who do not complete all professional sequence work within a period of six academic semesters (excluding summers) may be required to demonstrate the competencies required in the current sequence program.

Basic principles and techniques of teaching, developmental and remedial aspects of high school reading and organization and administration of American public education, including topics related to mainstreaming and multicultural education.

210 CHILD GROWTH AND DEVELOPMENT 3 F.S

PSY 111 req. Not for credit if in Elementary Education Core program. Not for credit if had PSY 112. Incl Clin Exp.

Physical, social, emotional and mental development of the child from conception through adolescence; methods of studying children and their behavior.

215 AMERICAN PUBLIC EDUCATION 2

C&I 200 (4 hrs.) or 200.01 (2 hrs; grade of C or better req.) and 200.02 (2 hrs; grade of C or better req.) or C&I 216 (4 hrs; grade of C or better req). Incl Clin Exp.

Organization and administration of American public education — federal, state, county, and local, as well as topics related to mainstreaming and multicultural education.

216 SECONDARY EDUCATION 4

C&I 210 or PSY 215 (grade of C or better req) or conc reg req. Incl Clin Exp.

Basic principles and techniques of teaching; learning goals and their function, subject matter, assignment procedures, selection and use of various teaching aids, practice in unit and daily planning, guidance and discipline, using community resources, teacher-student planning, small-group techniques, procedures for evaluating and reporting results, and topics in mainstreaming and multicultural education.

218 PRE-STUDENT TEACHING IN BILINGUAL EDUCATION: ENGLISH AND SPANISH 3-6

Cons inst and prgrm adviser req.

Field experience in bilingual-bicultural education at the elementary school level. Each trainee is placed in a bilingual classroom.

232 EDUCATION IN THE INNER CITY: AN INTRODUCTION 3 F.S

Social, economic, and cultural forces that contribute to deprivation in urban areas; their specific relationship to education. Activities within the local community emphasized.

233 THE JUNIOR HIGH/MIDDLE SCHOOL IN AMERICAN EDUCATION 1 F.S

C&I 130, 131, 132, or conc reg req. Incl Clin Exp.

Survey of organizational structure of American public education and provisions for early adolescent education; teacher certification and qualifications; teacher supply and demand at this level.

250 CORE I - THE ARTS 14 F.S

Elementary education maj only. Overall GPA of 2.2 beginning fall 1983 and 2.4 beginning fall 1984 and 45 semester hours req. Minimum of C in Eng 101 and in Com 110 req. Incl Clin Exp. Materials charge optional. Students responsible for transportation to Clin sites.

Modern programs, materials, and techniques of teaching art (3 hrs.); creative drama (3 hrs.); music (3 hrs.); and physical education (2 hrs.) in elementary school. Child growth (2 hrs.) and curriculum (1 hr.).

251 CORE II - COMMUNICATION SKILLS 12 F.S

C&I 250 req. Overall and maj. GPA of 2.2 beginning fall 1983 and 2.4 beginning fall 1984 req. Incl Clin Exp. Students responsible for transportation to clin sites. Materials charge optional.

Modern programs, materials, techniques of teaching reading (3 hrs.); language arts (3 hrs.); and children's literature (2 hrs.), in elementary school. Child growth (1 hr.), curriculum (2 hrs.), and measurement (1 hr.).

252 CORE III - NATURAL AND SOCIAL SCIENCES 12 F.S

C&I 103 and 251 req. Overall and maj GPA of 2.2 beginning fall of 1983 and 2.4 beginning fall 1984 req. Admission to Teacher Education and Teacher Certification courses in mathematics, science, and social science req. Incl Clin Exp. Students responsible for transportation to clin sites. Materials charge optional.

Modern programs, materials, and techniques of teaching mathematics (3 hrs.); science (3 hrs.); and social studies (3 hrs.) in elementary school. Curriculum (1 hr.) and measurement (2 hrs.).

253 CORE IV - THE CLINICAL CENTER PRACTICUM 10 F.S

C&I 252 req. Overall and maj GPA of 2.2 beginning fall 1983 and 2.4 beginning fall 1984 req. Students responsible for transportation to Clin Ctr Prac sites.

Participation in a partnership among Illinois State University, public school districts, the teaching profession and child-related community agencies. Supervised clinical experiences meet state certification requirement for student teaching.

260 CORE I - THE ARTS IN EARLY CHILDHOOD EDUCATION 9 S

Early Childhood Education Major only. Overall GPA of 2.0 and 40 credit hours req. Incl Clin Exp. Materials charge optional.

Modern programs, materials, techniques of teaching art, creative drama and music in ECE programs. Child growth and assessment.

261 CORE II - COMMUNICATION SKILLS IN EARLY CHILDHOOD EDUCATION 9 F

C&I 260 req. Incl Clin Exp. Materials charge optional.

Modern programs, materials, techniques of teaching pre-reading, language arts and literature in ECE programs. Child growth, assessment, and curriculum.

262 CORE III - NATURAL AND SOCIAL SCIENCES IN EARLY CHILDHOOD EDUCATION 9 S

C&I 261 req. Incl Clin Exp. Materials charge optional.

Modern programs, materials and techniques of teaching mathematics, science and social studies in ECE programs. Child growth, assessment and curriculum.

263 CORE IV - THE CLINICAL CENTER PRACTICUM 8 F
C&I 262 req.

Participation in a partnership among Illinois State University, ECE programs, the teaching profession and child-related community agencies. Supervised clinical experiences meet state certification requirement for student teaching.

270 PRIMARY CURRICULUM 4 F.S
SED 220 or conc reg req. Incl Clin Exp. Not for credit if in Elementary Education Core Program.

Organizational patterns of elementary schools, classrooms, and instructional groups. Skill development in teacher planning. Language arts and social studies teaching strategies and materials.

280 MIDDLE GRADE CURRICULUM 4 F.S
SED 220 or conc reg req. Incl Clin Exp. Not for credit if in Elementary Education Core Program.

Methods and materials in intermediate grades; language arts; arithmetic, science and social studies; instructional problems for teachers; selection, organization, and use of curriculum materials; the unified program of activities; pupil appraisal.

295 SENIOR SEMINAR IN ELEMENTARY EDUCATION 3 F.S
C&I 270 or 280 or 390 req. Not for credit if in Elementary Education Core Program. One section may be designated for post-field based SED maj only. Formerly C&I 298.

Seminar focuses on developing professional articulation for education students of senior standing who plan to seek employment in the near future. Topics covered include: school and society, the employable teacher, parent oriented concerns, law and finance for classroom teachers as well as those of concern to participants. Emphasis is placed upon preparing the student for entry into the job market.

300 EDUCATIONAL ROLE OF PLAY IN EARLY CHILDHOOD 3 S
Incl Clin Exp.

Emphasizes the process of play and its relationship to personal and cognitive development during the first eight years of life. Historical and current theories of play.

301 PREKINDERGARTEN EDUCATION - PRINCIPLES AND PRACTICES 3 F
Incl Clin Exp.

Principles and practices of planning, teaching, and evaluating prekindergarten programs. Emphasizes living-learning experiences, activities, materials, and equipment appropriate for children in prekindergarten environments.

311 TEACHING IN URBAN SCHOOLS 3 F.S
Incl Clin Exp.

Processes and effects of urbanization on students; adaptation of curriculum materials, techniques, procedures, and practices for teaching in urban schools.

312 URBAN FIELD EXPERIENCE 3 or 6 F.S

An off-campus, community-based experience in urban schools, local community agencies and state and private institutions serving youth.

317 DIAGNOSTIC TEACHING TECHNIQUES IN ELEMENTARY READING AND LANGUAGE ARTS 4 F.S
Conc reg in C&I 253 req. Not for grad credit. Offered

only at Clin Ctr sites. Incl Clin Exp. Students responsible for transportation to clin sites.

Extending, interpreting, and applying reading and language arts principles and skills. Experiences with individual pupils and groups provided.

318 SCHOOL/COMMUNITY INVOLVEMENT 2-6 F.S

Conc reg in C&I 253 or 263 req. Incl Clin Exp. Students responsible for transportation to clin sites.

Involvement with community programs and schools. Student assumes the role of a volunteer participant under the guidance and supervision of a professor and a designated agency or school representative.

332 EDUCATION IN THE INNER CITY 3 F.S

Field trips. Incl Clin Exp.

Problems of educating students living in inner city. Student characteristics, needed teacher skills and attitudes, instructional materials, techniques, school and community programs.

333 JUNIOR HIGH/MIDDLE SCHOOL 3 F.S

Philosophy, functions, curricula of early adolescent education as implemented in junior high/middle schools. Relationships between pupils' developmental characteristics, needs, and behaviors and development of school programs. Problems, issues, evaluation and accreditation of junior high/middle schools.

334 DEVELOPMENT AND CURRENT STATUS OF BILINGUAL MULTICULTURAL EDUCATION IN THE UNITED STATES 3 F.S

Cons inst and prgrm adviser req.

Study of development of past and present approaches toward bilingualism and cultural diversity in United States education.

354 DEMONSTRATION TECHNIQUES IN ELEMENTARY SCHOOL SCIENCE 2 S

C&I 252 or cons inst req.

Basic theory, rationale, and principles of effective demonstration science teaching in elementary school science. Includes analysis, synthesis, and utilization of both commercial and individually constructed demonstration apparatus and materials. Students will develop and use demonstration materials.

355 ALTERNATIVES IN EDUCATION 3 S

Study of the various types of educational alternatives both within and outside the public schools, and within urban and non-urban communities.

390 JUNIOR HIGH/MIDDLE SCHOOL CURRICULUM 3 F.S

SED 306 and C&I 333 or conc reg req. Incl Clin Exp.

Methods and materials for teaching-learning experiences at this school level; instructional strategies; classroom management; guidance techniques; and pupil evaluation.

395 CURRICULAR DESIGNS, EVALUATION AND PROBLEMS IN EARLY ADOLESCENT EDUCATION 3 F.S

Study of curriculum designs, principles of curriculum development, and problems encountered by practitioners in early adolescent education.

398 PROFESSIONAL PRACTICE: SCHOOL/COMMUNITY INVOLVEMENT 2-6

EDUCATIONAL ADMINISTRATION AND FOUNDATIONS (EAF)

331 DeGarmo Hall

Chairperson: Clayton F. Thomas.

Faculty: Professors: Brickell, Bunke, Chambers, Dunifon, Halinski, Hickrod, Laymon, McCarthy, McGrath, Riegle Sherman, Thomas. Associate Professors: Franklin, Hines, Jakker, Jackson, Lovell, Lynn, Stern, Strand. Assistant Professors: Eisele, Nelson.

Educational Administration and Foundations Courses

The Department of Educational Administration and Foundations offers courses at the undergraduate level to facilitate teacher education programs as well as areas of specialization. For a complete description of the department's graduate program and offerings, consult the *Graduate Catalog*.

228 SOCIAL FOUNDATIONS 3 F.S

Education as a social process and function, social origins of contemporary educational problems.

231 INTRODUCTION TO PHILOSOPHY OF EDUCATION 3 F.S

Philosophical inquiry into education problems, the nature of the educative process, and its institutionalization.

235 HISTORICAL FOUNDATIONS 3 F.S

Inquiry into the historical roots of American public schooling.

270 MEASUREMENT AND EVALUATION IN EDUCATION 3 F.S

Development, use and improvement of standardized and teacher-made tests and self-rating devices. Interpretation and use of test results. Appropriate for all prospective teachers.

278 SCHOOL LAW FOR TEACHERS 1-3 S

Jr or Sr standing, or cons inst req. The course is divided into 3 one-hour segments that may be taken separately or concurrently in any combination. Students will register for each segment separately and receive one hour for each. Max 3 hrs.

Introduction to legal foundations of public schools. Segment .01: legal influences on teachers, students, and boards. Segment .02: financing education and the Illinois systems of school finance. Segment .03: tort liability and labor management relations in schools.

326 SELECTED TOPICS IN THE PHILOSOPHY OF EDUCATION 1-3 S

EAF 231 or upper level PHI crse or cons inst req. May be repeated.

331 HISTORY AND PHILOSOPHY OF EARLY CHILDHOOD EDUCATION 3 F.S

C&I 300 or 301 req.

Emphasis given to major events and theories having an impact on Early Childhood Education in its contemporary form.

SPECIALIZED EDUCATIONAL DEVELOPMENT (SED)

109 Fairchild Hall

Chairperson: Ray E. Eiben.

Faculty: Professors: Bauer, Birkenholz, Bommarito, Bowen, Bowren, Caldwell, Eiben, Ewing, Greif, Hemenway, Huser, Livers, Meyering, Miller, Milliren, Morreau, Phelps, Price, Rex, Stearns. Associate Professors: Amerson, Baker, Jones, Michaelis, Rittenhouse, Tucker. Assistant Professors: Beckman, Bruyere, Coe, Foltz, Francis, Gray, Hastings, Jackson, Mack, McAnally, Noyes, O'Connor, Rock, Smith, Stephens, Terry. Instructors: Buscher, Carney, Carter, Clark, Cummings, Erlenbaugh, Gottlieb, Groves, Harris, Hug, Jarrett, Jefford, Klass, Leach, Lederman, Leisch, Marquis, Milliren, Otto, Quill, Scarborough, Sessions, Sheridan, Simmons, Webster, Weddig, Welter.

Special Education Programs

Degrees Offered: B.A., B.S., B.S. in Ed.

Admission to Special Education Programs: Since more students desire admission to Special Education programs than can be accommodated, students are admitted on a selective basis. Specific information on admissions policies and practices is available from the Department of Specialized Educational Development. While students may be admitted as Special Education majors, they must also be admitted to one of the sequences specified below.

Professional Requirements Applicable to All Special Education Programs: All students in Special Education complete 22 to 40 hours in Professional Requirements, that are specified for each sequence below, in addition to the requirements for their specific sequence. Students in SED 399 (Student Teaching) receive 8-16 hours of credit dependent upon the Special Education Sequence in which they are enrolled. To be eligible to enroll in SED 321, 322, 345, 346, 349, 351, 354, 355, 359; 371, 373, and 385, a student must have a cumulative GPA of 2.2 or above and be a declared major in a sequence in Special Education.

COMPREHENSIVE SPECIAL EDUCATION MAJOR

Learning and Behaviorally Disordered Sequence: Sequence Requirements: 46 hours required in addition to Professional Requirements. Part of entitlement program leading to certification: special K-12. Required courses: ART 101, 207; ENG 170 or COM 306 or 307; at least 3 hours of GEO electives; HPR 222; at least 5 hours of MAT electives; MUS 371; PSY 347 or SED 289 (EDUCATIONAL CHARACTERISTICS OF L/BD); SAS 323; PAS 115; SED 301, 321, 322, 380. Professional requirements: 32 hours including C&I 210 or PSY 112; 216 or C&I 270 or 280 or 390; EAF 228 or 231 or 235; SED 145, 220, 399 (16 hours). Of the 16 hours of SED 399 required in this sequence, one experience must be at the elementary level, and one experience must be at the junior high/secondary level. Grade of C or higher in SED 301, 321, 322 and PSY 347 or SED 289 required before student teaching.

Deaf and Hard of Hearing Sequence: Sequence Re-

quirements: 44 hours required in addition to Professional Requirements. Part of entitlement program leading to certification: special K-12. Required courses: ART 101; BSC 181, 182; ENG 170 or COM 306 or 307; ENG 241 or 243 or 341; SED 330, 353, 354, 355, 359; PAS 311, 350, 351, 372. Professional Requirements: 40 hours including C&I 210, 270 or 280 or 390; EAF 228 or 231 or 235; PSY 232, 334, 346; SED 145, 220, 399 (15 hours). Of the 15 hours of SED 399 required in this sequence, one experience must be at the elementary level, and one experience must be at the junior high/secondary level. Grade of C or higher in SED 330, 353, 354, 355, 359 required before student teaching.

Mentally Handicapped, Educable Sequence: Sequence Requirements: 41 hours required in addition to Professional Requirements. Part of entitlement program leading to certification: special K-12. Required courses: ART 101, 207; ENG 170 or COM 306 or 307; at least 3 hours of GEO electives; HPR 222; HEC 106; at least 5 hours of MAT electives; MUS 371; SED 301, 321, 343, 346; PAS 115. Professional Requirements: 36 hours including C&I 210, 270 or 280 or 390; EAF 228, or 231 or 235; PSY 234; SED 145, 220, 399 (16 hours). Of the 16 hours of SED 399 required in this sequence, one experience must be at the elementary level, and one experience must be at the junior high/secondary level. Grade of C or higher in SED 301, 321, 343, 346 required before student teaching.

Mentally Handicapped, Trainable Sequence: Sequence Requirements: 39 hours required in addition to Professional Education requirements. Part of entitlement program leading to certification: Special K-12. Required courses: SED 145, 244, 245.02 (3 hours), 245.03 (3 hours), 313, 314, 315, 343, 345, 370, 372, 373, 380; HPR 382; PAS 115. Professional Requirements: 22 hours including C&I 210; EAF 228, 231 or 235; SED 399 (16 hours), with 8 hours at the elementary and 8 hours at the junior high or high school level. Grade of C or higher in SED 244, 245.02, 245.03, 343, 345, 372 required before student teaching. A concentration in the education of the Severely/Profoundly Handicapped is available with the approval of the student's SED adviser.

Physically Handicapped Sequence: Sequence Requirements: 41 hours required in addition to Professional Requirements. Part of entitlement program leading to certification: special K-12. Required courses: ART 101, 207; BSC 181, 182, 381; ENG 170 or COM 306 or 307; at least 3 hours of GEO electives; HPR 222; HEC 106; at least 5 hours of MAT electives; MUS 371; SED 245.01, 301, 349, 385; PAS 115. Professional Requirements: 34 hours including C&I 210, 270 or 280 or 390; EAF 228 or 231 or 235; PSY 234; SED 145, 220, 399 (16 hours). Of the 16 hours in SED 399 required in this sequence, one experience must be at the elementary level, and one experience must be at the junior high/secondary level. A grade of C or higher in SED 245.01, 349, 385 required before student teaching.

Visually Handicapped Sequence: Sequence Requirements: 63 hours required in addition to Professional Requirements. Part of entitlement program leading to certification: special K-12. Required courses: ART 101, 207; BSC 181, 182, 382; BEA 112 or Proficiency Examination; ENG 170 or COM 306 or 307; at least 3 hours of GEO electives; HPR 222; HEC 106; at least 5 hours of MAT electives; MUS 371; SED 245.04, 301, 350, 351, 352, 356, 357, 358; PAS 115. Professional Requirements: 27 hours including C&I 210, 270 or 280 or 390; EAF 228 or 231 or 235; PSY 234; SED 145, 220, 399 (8 hours). A grade of C or higher in BEA 112 (or Proficiency), BSC 382, SED 245.04, 350, 351, 352, 356, 357 is required for student teaching.

Concentration in Criminal Justice Science: A B.A. or B.S. in Education with a concentration in Criminal Justice Sciences requires completion of the Special Education major in Learning and Behavioral Disorders or in the

Educable Mentally Handicapped entitlement sequence plus twelve hours in the Department of Criminal Justice Sciences as determined by the advisement process.

MINOR IN READING EDUCATION

— 24 hours required, including 12 hours in reading, 3 hours in measurement, and 9 hours of directed electives.

Note: 12 hours in reading in categories designated by the State of Illinois, a literature course appropriate to the teaching level, and an additional approved reading course must be completed to meet the requirements of the Illinois State Board of Education Document Number One.

— Required courses:

Reading (12 hours) including 3 hours selected from C&I 200, 251, and SED 218, 220; 6 hours selected from SED 301, 303, 304, 305, 306, 308; SED 302 or C&I 317 Measurement (3 hours) selected from C&I 250, 251, 252, EAF 270, PSY 334.

Directed electives (9 hours) including 3 hours selected from C&I 210, 250, 251, 252, PSY 112, 215; 3 hours selected from ENG 241, 243, 245, 310, and 341; and an additional 3 hours selected by student with approval of faculty adviser from any of above listed courses.

Specialized Educational Development Courses

109 HELPING

RELATIONSHIPS

3

F.S

Development of human relations skills used in interpersonal communication, includes 2 hours lecture and 2 hours laboratory.

145 INTRODUCTION TO SPECIAL EDUCATION

3

F.S

Incl Clin Exp.

Provides survey of all areas in special education as related to handicapped individuals.

218 SECONDARY-SCHOOL READING

2

PSY 215 or C&I 210 req. Not for credit if reg in C&I 200.04. Incl Clin Exp.

Developmental and remedial aspects of high school reading for senior and junior high school teachers, supervisors, and administrators.

220 READING METHODS

3

F.S

C&I 210 or PSY 215 req. Not for credit if in Elementary Education Core Program.

Instruction in, observation of, use of materials and techniques in teaching word recognition (including phonics), comprehension, and critical reading.

244 CURRICULUM FOR THE TRAINABLE MENTALLY HANDICAPPED

3

F.S

Formerly SED 344.

Analysis of curricular approaches, areas and levels as related to characteristics and needs of trainable mentally handicapped individuals.

245 FIELD WORK IN SPECIAL EDUCATION

1-6

F.S. Summer

May be repeated. Includes clin exp. Students responsible for transportation to clin sites.

Supervised clinical experiences in special education programs in schools, clinical facilities, community agencies, residential institutions. Topic .01 Physically Handicapped; Topic .02 Intro TMH & S/P HC; Topic .03 Educ of TMH; Topic .04 Visually Hand; Topic .05 Educ of S/PHC; Topic .06 Educ of EMH; Topic .07 Educ of LD/BD; Topic .08 Hearing Impaired.

301 LABORATORY READING METHODS 3 F.S

SED 145 and 220 or cons dept Chair req. Incl Clin Exp.
 Supervised clinical experiences in the diagnosis and instruction for special cases of severe reading disability. May include off-campus clinical experiences. Students responsible for transportation to clinical sites.

302 ADVANCED READING METHODS 3 F.S

SED 220 or C&I 251 or cons inst req.

Practical problems using group evaluation. Techniques in selecting reading materials in elementary classrooms. Integrates reading with skill development activities.

303 PRACTICUM IN UNIVERSITY**READING STUDY CENTER 3 F.S**

SED 218 or reading portion of C&I 200 or SED 302 and cons inst req. Six hours each week. Incl Clin Exp.

Observation and participation to provide skills necessary for working in a reading-study center in high school, junior college and senior college.

**304 READING-DEVELOPMENT:
EARLY ELEMENTARY 3 F.S**

C&I 251 or SED 220 or 306 req.

Extension and integration of the concepts and skills utilized in teaching reading and other subjects in the early elementary years.

305 PRE-FIRST GRADE**READINESS FOR READING 3 F.S**

Core II or cons inst req. Incl Clin Exp.

This course enables the student to present pre-reading and beginning reading skills to pre-first grade children. A practicum experience is provided.

**306 READING DEVELOPMENT FOR
EARLY ADOLESCENCE 3 F.S**

*One section may be designated for Junior High/
Middle School maj only. Incl Clin Exp.*

Provides the junior high/middle school person with knowledge, skills, and abilities to work with the developmental reading growth of early adolescents. A practicum experience is provided.

308 TEACHING ADULTS TO READ 3 S

One course in teaching of reading. Incl Clin Exp.

Nature and needs of the population of reading programs for adults. Goals, techniques, content, and materials.

**312 SELECTION OF INSTRUCTIONAL
MATERIALS FOR THE
HANDICAPPED LEARNER 3**

Adaption of instructional material from one medium to another and choice of media appropriate for the handicapped pupil.

**313 SPECIAL ADAPTATIONS
FOR INDIVIDUALS WITH
VISUAL DISABILITIES 1 F.S**

Not for credit to students specializing in Visually Handicapped. Incl Clin Exp.

Implications of visual disabilities for the individual in educational, travel, vocational and other settings.

**314 SPECIAL ADAPTATIONS
FOR INDIVIDUALS WITH
PHYSICAL DISABILITIES 1 F.S**

Not for credit to students specializing in Physically Handicapped. Incl Clin Exp.

Implications of physical disabilities for the individual in educational, travel, vocational and other settings.

**315 SPECIAL ADAPTATIONS FOR INDIVIDUALS
WITH HEARING DISABILITIES 1 F.S**

Not for credit to students specializing in Hearing Disabilities. Incl Clin Exp.

Implications of hearing disabilities for the individual in educational, travel, vocational and other settings.

**321 DIAGNOSIS AND ASSESSMENT
OF MILDLY HANDICAPPED
(LD/BD/EMH) STUDENTS 5 F.S**

Materials charge optional. Maj only or cons of dept chair req. Incl Clin Exp.

Generation, analysis, synthesis, and application of data in planning educational programs for mildly handicapped (LD/BD/EMH) students.

**322 EDUCATION OF THE
LEARNING AND
BEHAVIORALLY DISORDERED 5 F.S**

*Materials charge optional. SED 321 or conc reg req.
Maj only or cons dept chair. Incl Clin Exp. Students responsible for transportation to clinical sites.*

Development and delivery of educational programs and methods for individuals identified as learning or behaviorally disordered.

**330 THE LANGUAGE OF SIGNS
AND FINGERSPELLING 2 F.S**

SED 145 or cons dept chair req. Laboratory required.

Beginning course in developing expressive and receptive skills in sign language and fingerspelling.

331 AMERICAN SIGN LANGUAGE 2 F.S

SED 330 req.

Advanced course in American Sign Language including conversational sign and sign linguistics.

343 MENTAL RETARDATION 3 F.S

Medical, psychological and sociological characteristics and behavior of the mentally retarded. Methods of classification, causes and rehabilitative aspects.

**345 EDUCATION OF THE TRAINABLE
MENTALLY HANDICAPPED 3 F.S**

SED 244 and 343 or conc reg req. Conc reg in appropriate clinical experience (SED 245.03 or 431) or cons inst req. Includes off-campus clinical experiences. Students responsible for transportation to clinical sites.

Classroom organization strategies, teaching methods and materials for curriculum content areas across the psychosocial, applied and cognitive domains for TMH individuals from birth through adulthood.

**346 EDUCATION OF THE EDUCABLE
MENTALLY HANDICAPPED 4 F.S**

*SED 321, 343 or cons dept chair req. Incl Clin Exp.
Students responsible for transportation to clinical sites.*

Objectives, curriculum, and methods for educable mentally handicapped.

**349 EDUCATIONAL DIAGNOSIS
AND TEACHING OF CRIPPLED AND OTHER
HEALTH IMPAIRED 4 F.S**

SED 385 or cons inst req. Conc reg in appropriate clinical exp (245.01 or 431). Formerly EDUCATION OF THE PHYSICALLY HANDICAPPED.

Application of educational diagnosis to educational programming and teaching of crippled and other health impaired.

**350 INTRODUCTION TO VISUAL
HANDICAPS 3 F.S**

SED 145 or cons dept chair req. Incl Clin Exp.

Nature and needs of the visually handicapped, infants to adults.

351 EDUCATION AND ASSESSMENT OF THE VISUALLY HANDICAPPED 3 F.S
SED 350 and 356, or cons dept chair req. Incl Clin Exp. Students responsible for transportation to clinical sites.

Application of educational diagnosis to educational programming and instruction of the visually handicapped.

352 BRAILLE READING AND WRITING 3 F.S
BEA 112 or proficiency in typing, or cons dept chair req.

353 EDUCATION OF THE DEAF 2 F.S
SED 145 or cons dept chair req. Incl Clin Exp.

Psychological, social, historical and educational problems relating to education of the hearing impaired.

354 THE TEACHING OF SPEECH TO THE DEAF 4 F.S
SED 355, PAS 311 or cons dept chair req. Incl Clin Exp.

Principles and techniques of developing and teaching speech to hearing impaired students at all school levels.

355 THE TEACHING OF LANGUAGE TO THE DEAF 4 F.S
SED 330, 353 or cons dept chair req. Incl Clin Exp.

Principles and techniques of teaching language to hearing impaired students at all school levels.

356 COMMUNICATION SKILLS FOR THE VISUALLY HANDICAPPED 3 F.S
BEA 112 or equiv and SED 352 req. Formerly BRAILLE READING AND WRITING II.

Preparation in reading and writing using Nemeth Code in teaching mathematics and communication skills to the visually handicapped.

357 ORIENTATION AND MOBILITY FOR CLASSROOM TEACHERS 2 F.S

Practicum in basic daily living skills and rudimentary mobility techniques.

358 READING BY BRAILLE AND OPTACON 3 F.S
SED 220, 352 req. Includes lab. Not for grad cr.

Development of competencies to teach reading to the blind. Instructional techniques, materials, Optacon equipment emphasized.

359 THE TEACHING OF READING AND SCHOOL SUBJECTS TO THE DEAF 4 F.S
SED 355 req. Incl Clin Exp.

Teaching reading to hearing impaired students at all school levels, with practicum in reading and other core subjects.

360 FOUNDATIONS OF SCHOOL COUNSELING 3 F.S

Backgrounds, philosophy, and services in school counseling programs. Appraisal, informational and counseling services. Role of the classroom teacher, organization of counseling activities.

361 STUDENT PERSONNEL WORK IN HIGHER EDUCATION 3 F.S

Fundamental concepts, organization, and administration of higher education student personnel work. The student personnel worker as a facilitator in the changing educational scene.

362 BASIC SKILLS IN COUNSELOR EDUCATION 3 F.S
Lecture and laboratory.

Introduction to, and laboratory practice in, the basic procedures and skills of counseling.

363 TEACHER'S ROLE IN CHILD, FAMILY, AND COMMUNITY RELATIONSHIPS 3 F.S

Theories and techniques of child-management, consultation procedures, parent and family education, and parent involvement within the school and community agencies and institutions.

370 INSTRUCTIONAL PROGRAMMING FOR THE HANDICAPPED 3 F.S

Procedures for determining individual behavioral needs, designing instructional sequences, implementing behavior change programs, and evaluating effects of program for disabled individuals.

371 EDUCATION OF SEVERELY AND PROFOUNDLY HANDICAPPED INDIVIDUALS 3 F.S
Incl Clin Exp.

Implementation of educational programs for severely and profoundly handicapped individuals. Observation and participation required.

372 EDUCATIONAL DIAGNOSIS OF SEVERELY AND PROFOUNDLY HANDICAPPED INDIVIDUALS 3 F.S

Application of diagnostic skills to the assessment of severely and profoundly handicapped individuals, designing individualized programs, and evaluating client progress and program effectiveness.

373 SPECIAL EDUCATIONAL INTERVENTION WITH PARENTS OF HANDICAPPED INDIVIDUALS 3 F.S
C&I 210, a teaching methods course, or equivalent req. Includes off-campus clinical experiences. Students responsible for transportation to clinical sites.

Theoretical and practical aspects of providing special educational intervention to parents of handicapped learners.

380 EMPLOYMENT ANALYSIS FOR THE EXCEPTIONAL 3 F.S
Also offered as IT 307. Materials charge optional.

Diagnosis and instruction of exceptional students who are placed in occupational education. Synthesizing employment and education for exceptional students.

385 PHYSICAL DEFECTS-SURVEY AND REHABILITATION 3 F.S
BSC 381 or HPR 282 req. Also offered as HPR 385. Lecture and laboratory. Incl Clin Exp.

Identification and treatment of physical defects of handicapped children; special services, equipment, and procedures for school programs.

UNIVERSITY-WIDE TEACHER EDUCATION PROGRAM REQUIREMENTS

This section of the catalog provides information needed by students in teacher education programs. Students seeking further information or clarification on information presented here should contact the Office of Clinical Experiences and

Certification Processes (CECP) or the Director of Undergraduate Instruction in the College of Education, both located in DeGarmo Hall.

Each student who completes a bachelor's degree program in an approved teacher education program, and who is recommended for certification by the Dean of the College of Education as having completed all requirements (general education, professional education, and field of study or area of specialization) is eligible for a teaching certificate and endorsement in the State of Illinois. When a student has completed all of the requirements for a degree, including a recommendation from the Dean of the College of Education, the Evaluation Office at Illinois State University will send to the student the documentation necessary to receive the appropriate Illinois Teaching Certificate.

Students who have already completed one or more non-teaching degrees and now seek admission to teacher education are advised to seek admission to the University as a candidate for a second bachelor's degree. Subsequent transcript analysis may determine that a second degree is not required. In this instance, the student who received a degree from a state teacher education approved institution will be allowed to complete the requirements for certification without completing the requirements of the second bachelor's degree. Students are advised that the teacher education certification requirements provided here are for Illinois and that they should check certification requirements for other states if they desire to be certified for teaching elsewhere.

Students who complete a bachelor's degree program in teacher education at Illinois State University also have their transcripts stamped, *Student has completed NCATE program in teacher education. (NCATE is the National Council for Accreditation of Teacher Education)*.

This statement indicates that the program has received national accreditation. This status usually makes it easier to obtain a teaching certificate in another state. NOTE: Experienced teachers may be eligible for certificates from the Illinois State Board of Education by transcript evaluation. This certificate is not associated with an NCATE program and is not as readily recognized by other states.

Students interested in completing a teacher education program at Illinois State must (1) be admitted to teacher education, (2) complete general education, professional education including a minimum of 100 clock hours of approved pre-student teaching clinical experiences, field of study or area of specialization coursework appropriate to the early childhood education, elementary, junior high school, high school, special K-12, or special education curriculum, (3) successfully complete student teaching or practicum, and (4) be recommended for certification by the Dean of the College of Education.

To receive an Illinois teachers certificate, an individual must be a U.S. Citizen or have a Declaration of Intent for citizenship.

Council for Teacher Education

Five colleges of Illinois State University offer bachelor degree programs that lead to teacher certification in the State of Illinois. These five colleges include the College of Applied Science and Technology, the College of Arts and Sciences, the College of Business, the College of Education, and the College of Fine Arts. The Council for Teacher Education is responsible for developing policies for teacher education and for providing avenues of communication among all of the areas of the university concerned with teacher education. The Dean of the College of Education serves as the University's certification officer and is respon-

sible for maintaining the relationship between campus programs and state certification officials.

Admission-Retention Program

The following policies concerning admission-retention in teacher education apply to all students pursuing teacher education programs in any department of any college of the University.

The Office of Clinical Experiences and Certification Processes administers the procedures for admission to teacher education based upon eligibility requirements established by the Council for Teacher Education. Additional departmental and academic major requirements for admission to teacher education may be established by departments with approval of the Council for Teacher Education. A student should obtain information about departmental and academic major requirements from the department of the student's major field.

A student will not be assigned to student teaching unless formally admitted to teacher education and all stipulated prerequisites for student teaching are satisfied.

Admission Program

Eligibility for Application: a. Students, including those who transfer to Illinois State, must be registered as a comprehensive education major or an education major as identified in this catalog.

b. Application for admission to teacher education can be made after the completion of 45 hours, at least 12 of which must be graded hours and must be earned at Illinois State University.

c. Students must meet the grade point average requirements for admission to teacher education described below at the time of admission and must maintain the average for the remainder of the program. A student must have an Illinois State University cumulative grade point average of 2.20 or higher for all undergraduate credit. A student also must have a 2.20 or higher grade point average in courses taken at ISU which fulfill the requirements of the major including all professional education courses when professional education courses are listed separately in the catalog. Students enrolled in the Departments of Communication, Library Science, Music, and Speech Pathology and Audiology should confer with their departments regarding specific grade point average requirements for admission to teacher education.

d. A student must demonstrate written communication skills in one of the following ways:

(1) The student must have earned a C or higher in English 101 at Illinois State.

(2) The student must have earned a C or higher in an equivalent English course taken at another university as approved by Illinois State.

(3) The student passes the English proficiency exam given by the Department of English at Illinois State.

e. A student must demonstrate oral communication skills in one of the following ways:

(1) The student must have earned a C or higher in INF or COM 110 at Illinois State.

(2) The student must have earned a grade of C or higher in an equivalent Speech course taken at another university as approved by Illinois State.

(3) The student passes the speech proficiency exam given by the Department of Communication at Illinois State.

f. A student must satisfactorily pass a speech check conducted by the Department of Speech Pathology and Audiology.

Procedures for Admission: Application forms for admission to teacher education are obtained from the Office of Clinical Experiences and Certification Processes. Students must obtain, complete, and return the forms to the same office by established and publicized deadline dates. Among materials submitted and considered for admission are the following:

- a. The student should check with the major department regarding specific procedures and appropriate signatures required on the application for admission to teacher education form.
- b. Interviews: All students should be available for interviews upon request.
- c. Entrance, Psychological, or Aptitude Exams: Students may be requested to take certain examinations for the purpose of assessing potentiality for teacher preparation and educational careers.

Students must be admitted to teacher education at least one semester prior to student teaching. Specific deadline dates are publicized and available from the Office of Clinical Experiences and Certification Processes. After application forms have been checked, students will receive formal written notification as to their admission or non-acceptance into the program. Students who are denied admission to teacher education or student teaching may file a petition for a hearing. Specific information regarding procedures for a hearing in accordance with the University's *Student Rights and Responsibilities* and with the policies of the Council for Teacher Education may be obtained in the Office of Clinical Experiences and Certification Processes.

Retention Program

In recognition of its responsibility to the schools in which its graduates teach, the University maintains a program of selective retention of candidates for the teaching profession. Thus, the University seeks to avoid recommending a candidate for a student teaching assignment or for certification unless the candidate has good character, sound mental and physical health, academic competence in his or her overall studies, teaching field(s), and professional studies (see the requirements for student teaching).

Professional Certification

The Dean of the College of Education, as the University's certification officer, is responsible for approval of each graduate of an approved teacher education program and for recommending or withholding recommendation of that individual for certification. Certification is not an automatic procedure.

In order to qualify for certification, each student in a teacher education program must complete: (1) a distribution of course work in general education (this is usually done within the University Studies program), (2) courses in professional education appropriate to the program being followed including a minimum of 100 clock hours of approved pre-student teaching clinical experiences prior to student teaching, and (3) a teacher education approved major.

Approved Teacher Education Programs

The list below includes all undergraduate teacher education programs approved by the State of Illinois and the National Council for Accreditation of Teacher Education (NCATE).

Early Childhood Education (children up to 6 years of age, exclusive of kindergarten).

Elementary: (K-9) CORE; Junior High School.

Secondary (6-12): Agriculture; Biological Sciences; Business Education; Chemistry; Dance; English; French; Geography; German; Health Education; History (only); Home Economics; Industrial Education; Library Science (Media); Mathematics; Physical Education; Physics; Social Science (including History); Spanish; Speech Communication; Theatre; Traffic and Safety.

Special (K-12): Art; Music; Physical Education; Blind and Partially Seeing (Visually Handicapped); Deaf and Hard of Hearing; Educable Mentally Handicapped (Mentally Handicapped-Educable); Learning Disabilities--Social/Emotional Disorders (Learning and Behaviorally Disordered); Physically Handicapped; Speech and Language Impaired (Speech Pathology-Graduate Level)*; Trainable Mentally Handicapped (Mentally Handicapped-Trainable).

Transitional Bilingual (Spanish)-must be completed in conjunction with the approved elementary education program.

***Students of the Speech and Language Impaired program may take appropriate course work and enroll for student teaching at the undergraduate or graduate level, but State of Illinois certification is only given at the successful completion of the master's degree.**

All students enrolled in the University's approved teacher education programs should read carefully the High School, Special K-12, Junior High School, Elementary, Early Childhood Education, Special Education, or Speech Pathology section below. Particular attention should be given to the *general education requirements, professional education requirements* (including a minimum of 100 clock hours of approved pre-student teaching clinical experiences prior to student teaching); and *Field of Study or Area of Specialization (Major/Minor) requirements*.

Teacher Education Major and Minor: Any undergraduate student may graduate with one major or any combination of majors and minors of his or her choice, unless restricted by department policy as stated in the Catalog. Teacher education majors must complete a teaching major along with professional education and general education requirements. A teacher education major who meets all requirements for certification may also complete requirements for other majors or minors offered in the University and have them listed on his or her transcript.

Early Childhood Education

General Education Requirements: The 78 hour general education requirement for an Early Childhood Education student includes:

9 hours in language arts.

7 hours in science.

7 hours in social science, including a course in American history and/or government.

6 hours in humanities including work in music and art.

3 hours in health and physical education.

All other requirements are met with careful planning within the Early Childhood Education major as described in the Catalog. By following information available from the Office of Academic Advisement, students may meet 48 hours of these requirements in University Studies.

Professional Education and Field of Study Requirements: Students may obtain a Comprehensive Early Childhood Education major through the Department of Curriculum and Instruction. Specific professional education and field of study requirements are available through the Department of Curriculum and Instruction. Students who are enrolled as majors in Elementary Education or Home Economics Education may obtain a minor in Early Childhood Education. Specific professional education and field of study requirements are available from those departments. Information related to the Practicum for Early Childhood Education (major and minor) is available from the Office of Clinical Experiences and Certification Processes. All students must complete 100 clock hours of approved clinical experiences prior to the practicum experience. Students enrolled in the Early Childhood Education major and minor will be advised so that their programs include course work that will enable them to be employed in reimbursable programs in the Illinois public schools. Courses to meet the professional education requirement may not be taken for credit/no credit.

Elementary School (K-9)

General Education Requirements: The 78-hour general education requirement for an Elementary Education student includes:

9 hours of language arts.
7 hours in science.
7 hours in social science, including a course in American history and/or government.
6 hours in humanities including at least 1 hour each in Music and Art.
5 hours in mathematics.
3 hours in health and physical education.

All other requirements are automatically met within the Elementary Education major as described in the catalog. By following information available from the Office of Academic Advisement, students may meet 48 hours of these requirements in University Studies.

Professional Education and Field of Study Requirements: Both of these requirements are described in the Elementary Education field of study section of this catalog. Students will also complete a minimum of 100 clock hours of approved pre-student teaching clinical experiences prior to student teaching. Courses to meet the professional educational requirement may not be taken for credit/no credit.

Junior High/Middle School

General Education Requirements: The 78 hour general education requirements for a Junior High School student include:

9 hours of language arts.
7 hours in science.
7 hours in social science, including a course in American history and/or government.
6 hours in humanities, including at least 1 hour each in Music and Art.
5 hours in mathematics.
3 hours in health and physical education.

All other requirements to total 78 are met within the Junior High School program with careful planning. By following information available from the Office of Academic Advisement, students may meet 48 hours of these requirements in University Studies.

Professional Education Requirements: 27 hours in Professional Education are required: C&I 130, 131, 132, 390, 333; EAF 228 or 231 or 235, 233; SED 306; minimum of 100 clock hours of approved pre-student teaching clinical ex-

periences; Student Teaching 399 (8 hours); Courses to meet the professional education requirement may not be taken for credit/no credit.

Field of Study Requirements: Students in the program may prepare themselves to teach in any of the subject areas of the Junior High/Middle School: language arts-reading, science, social studies, health, physical education, mathematics, industrial arts, home economics, art, music, reading. For Field of Study Requirements, see the description for the Junior High/Middle School program in the Curriculum and Instruction section of this catalog. Students should confer with their academic advisers when selecting courses in the areas of concentration so that such courses may enable them to meet requirements of the Illinois State Board of Education Document Number 1. Document Number 1 minimum requirements need to be satisfied in order to teach in a Junior High and Departmentalized Upper Elementary Grades.

High School

General Education Requirements: The following 42-hour general education requirement for high school teacher certification may be met within Illinois State's University Studies program so that, with appropriate course selections, a student meets both program requirements simultaneously:

8 hours of language arts.
6 hours of science and/or mathematics.
6 hours of social science including a course in American history and/or government.
6 hours in humanities.
3 hours in health and physical education.

Additional hours in any above fields and/or psychology (except educational psychology) to total 42 hours.

Specific information regarding the fulfillment of University Studies and State of Illinois General Education requirements should be obtained from the Office of Academic Advisement.

Professional Education Requirements: Each student preparing to teach at the high school level (6-12) must complete the following program: 22 hours. Required courses: PSY 215 (3 hours); C&I 200 (8 hours) or 200.01, 200. 02, 200.03, 200.04 (8 hours) or C&I 216, 215; SED 218 (8 hours); EAF 231 or 228 or 235 (3 hours); a minimum of 100 clock hours of approved pre-student teaching clinical experiences prior to student teaching; Student Teaching 399 (8 hours); courses to meet professional education requirements may not be taken for credit/no credit.

Field of Study Requirements: The approved teacher education major, minor, or comprehensive major may be selected from the following programs which are described in detail in the undergraduate field of study section of the catalog.

Field of Study:

Agriculture — Comp. Education Major.

Anthropology — Education Minor

Art — Comp. Education Major and Minor

Biological Sciences — Comp. Education Major, Education Major, and Education Minor

Business Education — Comp. Education Major, Education Major, and Education Minor

Chemistry — Education Major and Education Minor

Dance — Education Major and Education Minor

Economics — Education Minor

English — Comp. Education Major, Education Major, and Education Minor

Ethnic and Cultural Studies — Education Minor
 French — Education Major and Education Minor
 Geography — Education Major and Education Minor
 German — Education Major and Education Minor
 Health Education Major — Education Minor
 History — Education Major and Education Minor
 Home Economics Education — Comp. Education Major and Education Major.
 Industrial Education — Comp. Education Major, Education Major, and Education Minor
 Journalism — Education Minor
 Library Science — Education Major and Education Minor
 Mathematics — Comp. Education Major, Education Major, and Education Minor
 Music — Education Minor
 Philosophy — Education Minor
 Physical Education — Comp. Education Major, Education Major, and Education Minor
 Physics — Education Major and Education Minor
 Political Science — Education Minor
 Psychology — Education Minor
 Reading—Education Minor
 Russian — Education Minor
 Traffic and Safety— Education Major and Education Minor.
 Social Sciences — Comp. Education Major
 Sociology — Education Minor
 Spanish — Education Major and Education Minor
 Speech Communication — Education Major and Education Minor
 Teaching English as a Second Language — Education Minor
 Theatre — Education Major and Education Minor
 Students should confer with their academic advisers when selecting courses in the minor area so that such courses may enable them to meet requirements of the Illinois State Board of Education *Document Number 1. Document Number 1* requirements need to be satisfied in order to teach in high schools in Illinois.

Special (K-12) - other than Special Education

General Education Requirements: The following 42-hour general education requirements for special K-12 teacher certification may be met with appropriate course selection in Illinois State's University Studies program so that a student meets both program requirements simultaneously:
 8 hours of language arts.
 6 hours of science and/or mathematics.
 6 hours of social science including a course in American history and/or government.
 6 hours in humanities.
 3 hours in health and physical education.

Additional hours in any of the above fields and psychology (except educational psychology) to total 42 hours.

Specific information regarding the fulfillment of University Studies and State of Illinois General Education requirements should be obtained from the Office of Academic Advisement.

Professional Education Requirements: Each student preparing to teach at the K-12 level must complete 22 hours in the following courses: PSY 215 or C&I 210 (3 hours); C&I 200 (8 hours) or C&I 200.01, 200.02, 200.03, 200.04 (8 hrs) or C&I 216, 215, SED 218 (8 hrs); EAF 231 or 228 or 235 (3 hours); minimum of 100 clock hours of approved pre-student teaching clinical experiences in K-12 sites; Student Teaching 399 (minimum of 8 hours). Students enrolled in Special K-12

programs will be assigned to do student teaching in K-12 sites. Courses to meet the professional education requirement may not be taken for credit/no credit.

Field of Study Requirements: The approved teacher education program for students enrolled in the Special K-12 program may be selected from the following programs which are described in detail in the undergraduate field of study section in the catalog:

Art—Compr. Education Major.
 Music—Compr. Education Major.
 Physical Education—Compr. Education Major, Education Major.
 Speech Pathology—Compr. Education Major (students must have a master's degree in the field to obtain the Illinois Certificate in Speech and Language and the ASHA clinical certificate.)

Students who complete one of the programs above and earn a K-12 certificate may teach only in that area. Students may complete any minor listed for the 6-12 certificate but may not teach in that area until a 6-12 certificate is granted through entitlement or transcript evaluation. Students should confer with their academic advisers when selecting courses in the minor area so that such courses may enable them to meet requirements of the Illinois State Board of Education *Document Number 1. Document Number 1* minimum requirements need to be satisfied in order to teach in high schools in Illinois.

Special Education (K-12)

Students in Special Education may complete a sequence in any of the following areas: Learning and Behaviorally Disordered, Deaf and Hard of Hearing, Mentally Handicapped-Educable, Mentally Handicapped-Trainable, Physically Handicapped, and Visually Handicapped. To ensure full certification the pattern of preparation should include:

General Education Requirements: The 42 hours of general education requirements include:

- 8 hours of language arts.
 - 6 hours of science and/or mathematics.
 - 6 hours of social science including a course in American history and/or government.
 - 6 hours of humanities.
 - 3 hours of health and physical education.
- Additional hours in any of the above fields to total 42 hours.

Specific information regarding the fulfillment of University Studies and State of Illinois General Education requirements should be obtained from the Office of Academic Advisement.

Professional Education and Area of Specialization Requirements: These requirements are described in the Specialized Educational Development section of this Catalog.

All students will complete a minimum of 100 clock hours of approved pre-student teaching clinical experiences in K-12 sites. Students enrolled in the approved Special Education sequences will be assigned to do student teaching in K-12 sites.

Clinical Experiences in Teacher Education

Observation, participation, studies of individual pupils and research, simulated teaching, individual field work, student teaching and practicum are included in the program of clinical experiences. The experiences offered prior to student teaching are usually integral parts of specific college

courses. Clinical experiences are provided in off-campus clinical teaching centers, in local schools and in campus laboratory schools, in agencies and other approved non-school settings. The Office of Clinical Experiences and Certification Processes coordinates all placements for clinical experiences. All students will have a minimum of 100 clock hours of approved pre-student teaching experiences prior to assignment of student teaching; students must provide their own transportation to clinical experience sites. Clinical experiences following student teaching include activities in which the student does additional study or has additional experiences as recommended by the instructor, supervising teacher, or college supervisor.

Requirements for Student Teaching

The following requirements for student teaching apply to all students:

The minimum requirement in student teaching is 36 clock hours for each semester hour of credit (5 semester hours — 180 clock hours). More clock hours of clinical work are required in Speech Pathology.

The number of semester hours of student teaching or practicum required varies with the student's curriculum. A student enrolled in an elementary, junior high school, special education, or speech pathology curriculum is required to earn a minimum of 8 hours of credit in student teaching. A student enrolled in a high school or special K-12 curriculum is required to earn a minimum of 8 hours of credit in student teaching and special methods. A student enrolled in the Early Childhood Education major is required to take 6 hours of credit in the practicum; a student enrolled in the Early Childhood Education minor may take 5-8 hours of credit in the practicum. A student does student teaching in his or her field of study. A student must meet all eligibility requirements for student teaching in that major field(s). If a student does student teaching in his or her minor field, the student must meet certification requirements for teaching in that field. If a student does all student teaching in the major field or in both the major and minor fields, the total number of semester hours required in student teaching remains the same.

To be eligible to do student teaching, a student must meet all of the following requirements:

1. Be formally admitted to teacher education at least one semester prior to the beginning of the semester in which student teaching is to be done.
2. Have completed 15 semester hours of work in residence (or its equivalent) at Illinois State University.
3. Have a teacher education approved major.
4. Have earned at least 85 hours of college credit.
5. Have successfully completed a minimum of 100 clock hours of approved pre-student teaching clinical experiences.
6. Have completed satisfactorily the courses that are prerequisites to Student Teaching 399 (see General Offerings in Course Listing section of Catalog) or C&I 253 or C&I 263. Specific information related to all the professional education courses that must be completed before assignment is made to student teaching is available in the Office of Clinical Experiences and Certification Processes.
7. Have earned at least a 2.2 grade point average at the time of application for student teaching and at the time of entry into student teaching in: (a) all work taken at Illinois State University, and (b) all work taken at Illinois State University which fulfill the requirements of the major including all professional education courses when professional education courses are listed separately in the catalog. Students enrolled in the approved programs in the

Departments of Communication (Library Science), Music, Speech Pathology and Audiology are required to meet grade point averages determined by their respective departments and approved by the Council for Teacher Education. Students should confer with the academic advisers in the major department concerning current departmental grade point average.

8. Have secured a statement from the University Health Service or other medical agency indicating that he or she is free of tuberculosis. Be able to secure upon request a statement from a medical doctor that he or she is physically capable of meeting the requirements of a certified teacher.
9. Have filed an application for student teaching for a given semester with the Director of Clinical Experiences at least six months prior to the semester in which student teaching is planned.

10. Have successfully completed at Illinois State University a minimum of 4 semester hours of professional education approved by the appropriate education department and Director of the Office of Clinical Experiences and Certification Processes at ISU prior to student teaching.

11. Have been approved for student teaching by the chairperson of the department of the student's major and the Director of the Office of Clinical Experiences and Certification Processes.

Students are expected to earn all of the required student teaching credit at Illinois State University. Exceptions to this policy may be made in individual cases if credit in student teaching will be earned in an institution of higher education accredited by the National Council for Accreditation of Teacher Education. Such arrangements must have the prior approval of the Director of Clinical Experiences.

Assignment to Student Teaching

The University will assign student teachers to selected schools or clinical centers in Illinois during regular semesters. Student teachers are assigned only to classrooms that have regularly employed full-time and fully qualified teachers. Assignments are not made to a school in which the student teacher is concurrently employed as a teacher. A student teacher may not earn academic credit and receive a salary or an income for the same teaching experience.

Student teaching in elementary education and special education is for one full semester; all other areas are typically for a half-semester. During this period in the school, the student teacher works with one or more supervising teachers who are responsible for teaching a specific group or groups of pupils. These supervising teachers along with the college supervisors have responsibility for guiding and evaluating the work of the student teacher. During this experience, the student becomes a member of the school staff and of the community in which he or she is working (co-curricular activities and community affairs are a part of the student teaching experience).

The Director of Clinical Experiences, in cooperation with the head of the student's major department, makes the student teaching assignments. The Director of Clinical Experiences is responsible for making the arrangements and establishing the procedures involved in student teaching. Students are not assigned to schools that are in their home communities or in communities in which they are currently residing. Any student who has a prolonged illness or temporary disability and who is unable to continue in his/her student teaching assignment should consult with the Director of the Office of Clinical Experiences. A clearance from a physician will be required stating that the student is again able to continue in his/her student teaching assignment without any contingencies.

Students who have had teaching experience and who have

shown a high standard of achievement in previous teaching may be given special student teaching assignments involving specialized phases of teaching which will broaden their preparation.

The Director of Clinical Experiences, upon the recommendation of the college supervisor or chairperson of the student's major department, may require a student to do additional work and continue student teaching until the student is sufficiently competent to be recommended for certification. Certification is not an automatic procedure.

Student teaching assignments begin and end on the dates indicated in the student's official notice of assignment. Ordinarily, the student is expected to follow the school

calendar of the school in which student teaching is done insofar as vacations and school holidays are concerned. Changes in dates involved in an assignment must receive the prior permission of the Director of Clinical Experiences. Information above may be applied to the Early Childhood Education Practicum. The University will assign Early Childhood Education Practicum students to selected Early Childhood Education sites with qualified personnel. Students enrolled in the major program will enroll in C&I 263 for 6 hours; students enrolled in the minor program will enroll in Student Teaching 399 for 5-8 semester hours of credit. Refer questions about the Practicum to the Office of Clinical Experiences and Certification Processes.

COLLEGE OF FINE ARTS

Dean: Charles Bolen, 116 Center for the Visual Arts.
 The primary function of the College of Fine Arts and its Departments of Art, Music, and Theatre is to provide professional training in the arts for students preparing to be elementary secondary and college teachers and for students desiring professional careers in select areas of the arts. Various areas of concentration in undergraduate and graduate studies, including MFA and MM programs and a doctoral program in Art, provide comprehensive and flexible curricula for a variety of student talents and interests. The College also provides a cultural environment through the performing and visual arts for the campus, community and region.

ART (ART)

119 Center for the Visual Arts

Chairperson: Frederick V. Mills.

Faculty: Professors: Anderson, Boyd, Butler, Colvin, Freyberger, George, Gregor, Hartley, Hentz, Hobbs, Holder, Mills, Moore, Myers, Rennels, Salome, Stefl, Steinburg, Towner. Associate Professors: S. F. Amster, S. H. Amster, Bock, Bontemps, Fry, Jackson, Knoblock, Malone, Natalie, Newby, Tell, Walter. Assistant Professors: Brueckner, Erf, Finch, Gold, Kilgo, Roberts, Suhr, Wesle, Winder. Instructors: Barr. Lecturers: Caster, Connelley, Olson, Peck.

The Department of Art is accredited in Division I by the National Association of Schools of Art.

Bachelor of Arts (B.A.) and Bachelor of Science (B.S.) Art Programs

Degrees Offered: B.A., B.S.

COMPREHENSIVE ART MAJOR

— 55 hours in Art required.
 — Required courses: ART 103, 104, 106, 109, 155, 156, 257; two courses from ART 224, 228, 232, 240, 255; two courses from ART 213, 226, 261; any 300-level Art History course; remaining hours in ART electives. ART 201, 203, 204, 211 and 309 do not count toward major.

COMPREHENSIVE ART EDUCATION MAJOR

— 60 hours in Art required. Part of entitlement program leading to certification: special K-12.
 — Required courses: ART 103, 104, 106, 109, 155, 156, 201, 211, 257, 309 (2 consecutive semesters, starting in the fall); two courses from ART 224, 228, 232, 240, 255; two courses from ART 213, 226, 261; any 300-level Art History course; remaining hours in ART electives. Note: This program provides for acquisition of knowledge, attitudes and skills necessary for effective performance as an art teacher or art supervisor.

MAJOR IN ART

— 37 hours in Art required.
 — Required courses: ART 103, 104, 106, 109, 155, 156, 257; two courses from ART 224, 228, 232, 240, 255; two courses from ART 213, 226, 261; any 300-level Art History course; remaining hours in ART electives. ART 201, 203, 204, 211 and 309 do not count toward the major.

MINOR IN ART

— 27 hours in Art required.
 — Required courses: ART 103, 104, 106, 109, two courses from 155, 156, 257; 11 hours of electives in ART. ART 201, 203, 204, 211, and 309 do not count toward minor.

MINOR IN ART EDUCATION

— 27 hours in Art required.
 — Required courses: ART 103, 104, 106, 109, one course from 155, 156, 257; 201, or 211; 203 or 204 8 hours of electives in ART.

Bachelor of Fine Arts (B.F.A.) Art Program

Degree Offered: B.F.A.

COMPREHENSIVE B.F.A. ART MAJOR

— 72 hours in Art required.
 — Required courses (46 hours): ART 103, 104, 106, 109, 155, 156, 232, 235, 257, 261; two courses selected from ART 224, 228, 240, 255; two courses selected from ART 213, 226, 245; any two 300-level Art History courses.
 — 26 additional hours in chosen concentration selected in consultation with an academic adviser. ART 201, 203, 204, 211 and 309 do not count toward this major. Students are admitted to the B.F.A. degree program during the sophomore year; the student must submit a portfolio to the Department of Art as part of the admission process of the B.F.A. degree program. Consult the Department of Art for further information on admission to the B.F.A. program in Art. An exhibition of the student's work during the senior year is required of students in the B.F.A. program.

Art Courses

The Department of Art reserves the right to keep for demonstration and exhibition examples of work done by students for course requirements.

100 INTRODUCTORY ART

WORKSHOP 3 US-6

F.S

Materials charge optional. Not for credit ART maj min. Creative problem solving and aesthetic analysis. Art experiences including drawing, painting, printmaking and sculpturing as well as attending art exhibits.

101 ART ACTIVITIES FOR ELEMENTARY SCHOOLS 2 F.S

Materials charge optional.

Introduction to two-dimensional graphic and craft materials and procedures appropriate for elementary art learning experiences; understanding the developmental stages of child art.

103 VISUAL ELEMENTS 3 F.S

An exploration of the basic elements of design as they relate to composition and expression in graphic form.

104 BASIC DRAWING 3 F.S

Materials charge optional.

Concepts basic to all studio offerings. Emphasis upon making pictorial space and upon development of drawing skills; practice with traditional materials.

106 ART FOUNDATIONS 1 F

Introduces art majors to the diverse opportunities possible in art careers; outlines the requirements and expectations in each instructional area within the art department.

109 BASIC MATERIALS 3 F.S

Materials charge optional.

Use of a variety of materials to explore fundamental three dimensional design concepts. Introduction to the use of hand tools and power tools.

111 ART FUNDAMENTALS 3 F.S

Primarily for students in HEC. Materials charge optional.

Laboratory experiences in design fundamentals appropriate to visually enhancing everyday living in the home, school and community.

150 ART APPRECIATION 3 US-6 F.S

Not for credit ART maj.

Survey of Western and non-Western art, introduction to art media, gallery visits and studio demonstrations.

155 SURVEY OF ART I 3 US-6 F.S

Arts from pre-historic times to end of Medieval period circa 1400.

156 SURVEY OF ART II 3 US-6 F.S

Arts of the early Renaissance, circa 1400, to the end of the Baroque, circa 1775.

183 PUPPETRY 3 F.S

Also offered as THE 183.

Introduction to the performance art of puppetry and its educational applications: history, staging, and construction and manipulation of hand, rod, and shadow puppets.

201 MEDIA AND TECHNIQUES FOR ELEMENTARY AND JUNIOR HIGH SCHOOLS 3 F.S

Art educ maj only; others by cons dept chair. Incl Clin Exp.

Media, techniques, and clinical experiences suitable for elementary and junior high schools.

202 ART ACTIVITIES FOR ELEMENTARY SCHOOLS 3 F.S

Materials charge optional.

Methods and laboratory experiences in two and three-dimensional activities.

203 TEACHING ART IN THE SECONDARY SCHOOLS 3 S

Art educ (secondary) minors only; other by cons of dept chair. Incl Clin Exp.

Includes teaching methods, curriculum planning, requisitions, observations, and participation in art, secondary level.

204 TEACHING ART IN THE ELEMENTARY SCHOOLS 3 F

Art educ (elementary) minors only; others by cons of dept chair. Incl Clin Exp.

Includes teaching methods, curriculum planning, requisitions, observations, and participation in art, elementary level.

207 ART FOR SPECIAL EDUCATION 3 F.S

ART 101 or cons inst req. For SED students. Incl Clin Exp. Materials charge optional.

Theory and methods of teaching art and craft activities appropriate to the needs of special education classes.

211 MEDIA AND TECHNIQUES FOR SECONDARY SCHOOLS 3 F.S

Art educ maj only; others by cons dept chair. Incl Clin Exp.

Media and techniques suitable for secondary school level with emphasis on the sequential development of media and techniques in relation to the maturity and growth of the adolescent.

213 LIFE DRAWING 3 F.S

Materials charge optional.

Emphasis on anatomy and formal concerns. Human figure as an expressive motif within the tradition of the nude in art.

214 DRAWING COMPOSITION 3 F.S

ART 213 req. Materials charge optional.

Further study of the human figure with emphasis upon representational complexity and a more sophisticated understanding of formal considerations.

221 FESTIVAL DESIGN I 2 F

May be repeated once for credit. Cons inst req.

Insights and application of aesthetic qualities, organizational principles and procedures inherent in designing a festival.

224 JEWELRY I 3 F.S

Materials charge optional.

An introduction to the tools techniques and fabricating process used for creating in metals.

225 JEWELRY II 3 F.S

ART 224 req. Materials charge optional.

Further exploration of fabrication and casting techniques; emphasis on surface treatment such as repoussé, etching, lamination and inlay.

226 VISUAL COMMUNICATIONS I 3 F.S

ART 103 or cons inst req. Materials charge optional.

Basic graphic design techniques. Includes study of letter forms and design procedures. Practice in rendering skills.

227 VISUAL COMMUNICATIONS II 3 F.S

ART 226 req. Materials charge optional.

Application of design techniques to visual communications media. Emphasis on combining lettering with illustrational elements in preparation for reproduction processes.

228 CERAMICS I 3 F.S

Materials charge optional.

Introduction to the physical characteristics of clay. Basic handbuilding and firing processes explored. Introduction to glaze processes.

229 CERAMICS II 3 F.S

ART 228 req. Materials charge optional.

An expansion of handbuilding methods and the introduction of wheel throwing techniques. Glazing and firing methods emphasized.

232 SCULPTURE I 3 F.S

Materials charge optional.

Exploration of sculpture techniques and materials within

context of historical developments. Introduction to three dimensional spatial concerns.

233 SCUPTURE II 3 F.S

ART 232 req. Materials charge optional.

Further exploration of sculpture techniques and materials. Advanced three dimensional spatial concerns presented within a context of art historical development.

235 PHOTOGRAPHY AS AN ART FORM I 3 F.S

Materials charge optional.

The study of photography as an art form.

236 PHOTOGRAPHY AS AN ART FORM II 3 F.S

ART 235 or cons inst req. Materials charge optional.

Further study of photography as an art form. Individual exploration of techniques and subjects.

240 WEAVING I 3 F.S

Materials charge optional.

Introduction to weaving as an art form. Emphasis on technical and aesthetic development of fiber concepts using a variety of loom controlled and non-loom controlled structures.

241 WEAVING II 3 F.S

Art 240 req. Materials charge optional.

This course builds on the foundation of technical and aesthetic concepts presented in Weaving I. Processes such as spinning, dyeing, and complex loom controlled structures will be explored.

242 MINORITY ARTS 3 F.S

A survey course designed to study forms, content, artistic technique, and contributions of the American Indian, Chicano, Puerto Rican, and black American artists of the present.

245 PRINTMAKING I 3 F.S

ART 104 req. Materials charge optional.

Introduction to intaglio processes. Techniques such as etching, engraving, dry point and aquatint within context of pictorial spatial understanding.

248 REPROGRAPHICS 3 F.S

ART 226. Materials charge optional.

The study of process photography as an art form.

250 ARTS AND THE MODERN WORLD 3 US-6 F.S

Also offered as MUS 250 and THE 250.

Selected works from Music, Theatre and Visual Arts that amplify the roles, definitions and capabilities of art as a humanistic value enterprise in contemporary life.

251 EXPERIMENTAL FILMMAKING 3 F.S

ART 103 or equiv req. Materials charge optional.

The study of filmmaking as an art form. Studio production using primarily eight millimeter film. Experimental art films surveyed.

255 GLASS I 3 F.S

One Studio ART course or cons inst req. Materials charge optional.

An introductory course to acquaint student with the hot glass forming processes of glassblowing and casting.

257 SURVEY OF ART III 3 US-6 F.S

The major developments in European painting, sculpture and architecture from the Romantic period, circa 1775, to the present.

259 AESTHETIC EXPERIENCE 1 F.S

May be repeated. Max 3 hrs. Also offered as MUS 259 and THE 259.

One hour of credit is available on a credit-no credit basis for attendance at 15 fine arts events and submission of 3 papers. One class meeting per week is used to introduce future events and to analyze past events.

261 PAINTING I 3 F.S

Experimental work with variety of transparent and opaque painting media.

262 PAINTING II 3 F.S

Problems of pictorialization and survey of contemporary trends in painting.

263 PAINTING III 3 F.S

ART 261, 262 req. Individual exploration of concepts extended from ART 261 and 262.

277 AFRO-AMERICAN ART — PRE-SLAVERY TO 1865 3 F.S

Study of art forms, content, artistic technique and contributions of pre-slavery artists up to Afro-American artists of 1865.

278 BLACK AMERICAN ART — 1865 to PRESENT 3 F.S

Study of artistic technique lifestyles, political and social implications of black American artists from 1865 to present.

307 ART FOR ATYPICAL INDIVIDUALS 3 F.S

Art 207 or C&I 250 or upper division ART maj or equiv experiences in the arts rec.

Study of various approaches to the development and conduct of art activities for individuals in special education and other community programs for the atypical individual.

309 PROFESSIONAL ART EDUCATION SEQUENCE 4 F.S

C&I 200 (6 hrs.) or 200.03 (grade of C or better req.) or 215 (2 hrs.) or conc reg. Not for credit if had ART 203 or 204. For Art educ maj only; others by cons dept chair. Must be repeated by ART EDU maj for total of 8 hrs. Two consecutive semester sequence starting in Fall. Incl Clin Exp.

Sequential semesters interrelate art learning theory, teaching methodology and pre-student teaching clinical experiences in Art Education K-12.

325 ADVANCED JEWELRY AND METALS 2-4 F.S

Art 324 and cons inst req. May be repeated. Materials charge optional. Formerly ART 351.26.

Elaboration upon metalworking skills previously acquired, allowing development of a strong personal direction.

326 VISUAL COMMUNICATIONS III 3 F.S

ART 226, 227 req. Materials charge optional.

Transition course using the skills, techniques, and concepts learned earlier, applying them to problems of contemporary expression. Preparation for study on independent basis.

328 CERAMICS III 2-6 F.S

ART 229 req. May be repeated. Materials charge optional.

Experiences in wheel and handbuilding processes with an emphasis on individual exploration of ideas through ceramic media.

331 ADVANCED DRAWING 1-3 F.S

ART 214 req. May be repeated. Materials charge optional.

Transition course using the skills, techniques, and concepts learned earlier, applying them to problems of contempo-

rary expression. Preparation for study on independent basis.

332 SCULPTURE III 2-6 F.S
ART 233 req. May be repeated. Materials charge optional.

Transition course. Individualized problems exploring techniques and concepts encountered earlier and their applications to problems of contemporary expression. Preparation for study on an independent basis.

335 PHOTOGRAPHY AS AN ART FORM III 2-6 F.S
ART 236 req. May be repeated. Materials charge optional.

Advanced problems in photography as an art form. Emphasis upon individual exploration of the medium. Preparation for study on an independent basis.

336 VISUAL COMMUNICATIONS IV 3 F.S
ART 326 req. Materials charge optional.

Advanced studio work exploring design techniques applied to advertising, packaging, and display media.

337 ADVERTISING LAYOUT 3 F.S
Art 326 or cons inst req. Formerly ART 351.46.

Advanced studio work emphasizing advertising layout techniques and art direction responsibilities.

340 WEAVING III 2-6 F.S
ART 241 req. May be repeated. Materials charge optional.

Advanced studio work based on the technical and aesthetic concepts presented in Weaving I & II. Emphasis upon individualized projects designed in consultation with instructor.

341 PRINTED TEXTILES 2-3 F
*Art 103, 240 and cons inst req. May be repeated.
Materials charge optional. Formerly ART 351.06.*

Studio exploration of the aesthetic concepts and technical skills for designing and executing printed textile designs; emphasis on silk screen.

345 PRINTMAKING II 2-6 F.S
ART 245 req. May be repeated. Materials charge optional.

Further study of intaglio processes with greater emphasis on intaglio as an expressive medium. Introduction to color possibilities.

349 VISITING ARTIST SEMINAR 2 F.S
May be repeated. Formerly ART 351.60.

A seminar-type class taught by visiting artists and members of the art department faculty, focusing upon contemporary issues of fine arts and the creative process.

351 SPECIAL PROJECTS IN ART 2-6 F.S
May be repeated. Materials charge optional.

Special projects in art or art education chosen by the student for advanced investigation with the written approval of the instructor. May not duplicate existing courses.

352 RENDERING FOR INTERIOR DESIGNERS 3 F.S
IT 211 and HEC 242, or ART 103 and 104, or cons inst req.

Perspective sketching and delineations of architectural interiors. Various media and application techniques will be stressed for professional results in presentations.

355 GLASS II 2-6 F.S
ART 255 req. May be repeated. Materials charge optional.

Further practice in glass blowing skills coupled with the introduction of techniques to alter and shape cold glass.

361 PAINTING IV 2-6 F.S
ART 263 req. May be repeated.

Transitional course. Student encouraged to explore personal directions in close consultation with instructor. Preparation for study on an independent basis.

362 WATERCOLOR I 3 S
ART 261 req. Formerly ART 351.50.

Watercolor as an expressive medium. Techniques, study of masters of watercolor, emphasis on creating pictorial space by illusion, color and the use of transparency.

363 COLOR THEORY 3 F
ART 261 req.

A practicum to give the studio art student a context of theoretical and historical color premises as a basis for making color organized works. Discussion of student work, process, color-formed space and aesthetic analysis.

366 ART OF THE ANCIENT NEAR EAST 3

ART 155 or cons instr req. Formerly ANCIENT ART.
 Art and architecture of early civilizations of Egypt, Mesopotamia and peripheral areas from circa 8000 B.C. to circa 300 B.C.

367 GREEK AND ROMAN ART 3

ART 155 or cons instr req. Formerly CLASSICAL ART.

Art and architecture of the Aegean, Greek and Roman worlds from circa 3000 B.C. to the era of Constantine.

369 HISTORY OF MEDIEVAL ART AND ARCHITECTURE 3

ART 155 or cons instr req.
 Art and architecture of Europe from circa 500 A.D. to the Renaissance.

372 MODERN ARCHITECTURE 3

Late 19th and 20th century architecture. Sullivan, Wright and the Chicago School. European movements involving Le Corbusier, Gropius, and Mies Van der Rohe. The great engineers, Maillart, Nervi, Fuller, Candela.

373 PRE-COLUMBIAN ART: INDIAN ARTS OF MIDDLE AMERICA 3

Art of Mexico and Yucatan before the arrival of the Spanish.

375 ITALIAN RENAISSANCE ART 3

Painting, sculpture, and architecture of the 15th and 16th centuries in Italy.

376 NORTHERN RENAISSANCE ART 3

Art and architecture of the Renaissance and Mannerism in Northern Europe.

377 HISTORY OF BAROQUE AND ROCOCO ART 3

Painting, sculpture, and architecture of Europe during the 17th century.

378 HISTORY OF 19th CENTURY ART AND ARCHITECTURE 3

Concentration is centered on the art of Europe from the French Revolution to the 20th century.

379 MODERN ART 3

Painting and sculpture in Europe and America from the late 19th century to 1970.

380 ART IN THE UNITED STATES I: COLONIAL — 19th CENTURY ROMANTICISM 3

American art from the Colonial Period through 19th century Romanticism.

**381 ART IN THE UNITED STATES II:
AMERICAN IMPRESSIONISM —
WORLD WAR II 3**

American art from late 19th century Impressionism to the advent of World War II.

**382 ART IN THE UNITED STATES III:
WORLD WAR II TO THE PRESENT 3**

Complex artistic developments which occurred in the United States from World War II to the present.

**383 HISTORY OF PHOTOGRAPHY
AS AN ART FORM 3 S**

Study of important photographers and the major aesthetic and technical developments of photography from 1840 to present.

**398 PROFESSIONAL PRACTICE:
INTERNSHIP IN ART 1-8**

May be repeated. Max 16 hrs. Cons dept chair req.

Supervised work experiences in: Professional Studio; Design; Community or Governmental Arts Programs; Arts Administration; Teaching Art (Not for credit ART EDUCATION maj); Art Related Industry.

MUSIC (MUS)

230 Centennial East

Chairperson: Arthur Corra.

Faculty: Professors: Armstrong, Bedford, Bolen, Cordero, Corra, Dawson, Eichen, Farlee, Ferrell, Iwasaki, Lewis, Livingston, Peterson, Poultney, Rosene, Rye, Schoenfeld, Williams. Associate Professors: Boitos, Chavez, DeBose, Foeller, LoMonaco, Modos, Nicholas, Omer, Rehm, Schuetz, Suggs, Whikehart. Assistant Professors: Borg, Corbin, DiGiammarino, Fox, Hirt, Hurtz, Lehman, Stokes. Instructors: Collier, Fairfield, Little, Mannis, Mihalek-Liptak. Lecturers: Allan.

General Information Concerning Music

Programs and Courses

Admission Auditions: Students who intend to major in Music at Illinois State University are expected to have previous music experiences. Prior to acceptance as a Music major, all students must pass a performance audition on their major instrument or voice. Information concerning admission auditions is available from the Department of Music.

Performing Organization Requirement: All students pursuing a Music major degree program are required to participate in a major music-performing organization each semester they are enrolled in the University (B.M.E. majors are exempt from this requirement during the semester of Student Teaching). Specific performing organization participation requirements are indicated below for each of the Music major degree programs. A maximum of 12 hours in music performing organization credit is applicable to any degree.

Recital Attendance Requirement: Students pursuing an undergraduate degree in music are required to enroll in Music 106 or 206 each semester (B.M.E. majors are exempt from this requirement during the student teaching semester).

Enrollment Limitations: Enrollment in some Music Courses is limited to those students who have had auditions or who have secured the permission of the appropriate coordinator. Information concerning these course enrollment limitations is available from the Department of Music.

Musical Instrument Storage: In the event that students choose to store musical instruments on campus in any building operated by the University, they hereby waive any and all liability of the University and its employees for the loss of or damage to such musical instruments by any cause whatsoever, including, but not limited to, fire, water, windstorm, or any other casualty, theft, or dampness or dryness of the air.

Bachelor of Arts (B.A.) and Bachelor of Science (B.S.) Music Programs

Degrees Offered: B.A., B.S.

MAJOR IN MUSIC

- 37 hours in Music required.
- Required courses: MUS 101, 102, 203, 204; at least 8 hours of applied music (may include Group Instruction Voice or Piano); elective courses in MUS to complete 37 hours.

MINOR IN MUSIC

- 24 hours in Music required.
- Required courses: MUS 101, 102; at least 8 hours of applied music (may include Group Instruction Voice or Piano); at least 4 hours in performing organizations or ensembles; elective courses in MUS to complete 24 hours.

Bachelor of Music Education (B.M.E.) Programs

Degree Offered: B.M.E.

COMPREHENSIVE MUSIC EDUCATION MAJOR

Core Requirement and Sequences: All students must complete the core requirement of MUS 101, 102, 203, and 204 and choose a sequence from one of the four sequences below. Depending upon the sequence chosen, the major will require from 57 to 60 hours. The Vocal and Keyboard sequences are part of entitlement programs leading to special K-12 certification with a choral general emphasis. The Band and Orchestra sequences are part of entitlement programs leading to special K-12 certification with an instrumental emphasis. Designated special methods courses throughout the Band, Orchestra, Vocal and Keyboard sequences require clinical experiences and are taken throughout the degree program.

Piano and Applied Music Requirements: Students pursuing the B.M.E. degree are required to attain sufficient skill in playing the piano to pass a proficiency test prior to admission to the B.M.E. program. A syllabus of proficiency requirements is available in the department office, or from the Group Piano Coordinator. The study of piano may be done in Group Instruction 122 or in applied piano. A maximum of 8 hours is allowed for taking piano in group instruction. Students pursuing the B.M.E. degree are required to study applied music on their major instrument every semester that they are enrolled in the program, except for the semester in which they student teach (this may include Group Instruction Voice or Piano). Prior to the first semester of the junior year, B.M.E. majors are required

to attain 200 level performance status through audition or be approved for provisional status. The B.M.E. degree requires the successful completion of at least one semester of a 200 level applied music course.

Choral-General-Vocal Sequence: 57 hours in Music required. Required courses: Core requirement and a minimum of 2 semesters of group or applied piano and 5 semesters of group or applied voice (group voice may be repeated only once for credit); MUS 127, 167, 262, 264, (262 and 264 require clinical experiences). Students must be enrolled for 1 hour of credit in University Glee Club, Treble Choir, Civic Chorale, Concert Choir, or Madrigal Singers each semester they are in residence, except for the semester in which they student teach. Within this requirement, students must take not less than four semesters in Civic Chorale, Concert Choir, or Madrigal Singers.

Choral-General-Keyboard Sequence: 59 hours in Music required. Required courses: Core requirement and a minimum of 2 semesters of group or applied voice and 5 semesters of group or applied piano; MUS 167, 240 (2 hours required), 262, 264, (262 and 264 require clinical experiences), 330 (piano). Students must be enrolled for 1 hour of credit in University Glee Club, Treble Choir, Civic Chorale, Concert Choir, or Madrigal Singers each semester they are in residence, except for the semester in which they student teach. Within this requirement, students must take not less than four semesters in Civic Chorale, Concert Choir, or Madrigal Singers.

Instrumental-Band Sequence: 60 hours in Music required. Required courses: Core requirement and MUS 111, 113, 115, 117, 161, 167, 261, (111, 113, 115, 117 and 261 require clinical experiences). Students must be enrolled for 1 hour of credit in Symphonic Band, Concert Band, University Band, Jazz Band, or Orchestra each semester they are in residence, except for the semester in which they student teach. Within this requirement, students must take not less than two semesters of marching band, nor less than two semesters of a concert band.

Instrumental-Orchestra Sequence: 60 hours required. Required courses: Core requirement and MUS 111, 113, 115, 117, 167, 261, (111, 113, 115, 117, and 261 require clinical experiences), 330 (strings). Student must be enrolled for 1 hour of credit in an orchestra each semester they are in residence, except for the semester in which they student teach.

MINOR IN MUSIC EDUCATION

— 24 to 27 hours in Music required, depending upon sequence selected (student selects one of the five sequences below).

Choral Music Sequence: 26 hours in Music required. Required courses: MUS 101, 102, 167, 264; at least 4 hours of applied music voice (may include Group Instruction Voice); at least 4 hours of applied music keyboard (may include Group Instruction Piano).

General Music Sequence: 26 hours required. Required courses: MUS 101, 102, 167, 262; at least 4 hours of applied music keyboard (may include Group Instruction Piano); at least 4 hours of applied music voice (may include Group Instruction Voice).

Instrumental Music-Winds Sequence: 27 hours required. Required courses: MUS 101, 102, 111, 115, 117, 167, 261; at least 4 hours of applied music brass, percussion, or woodwinds.

Instrumental Music-Strings Sequence: 27 hours required. Required courses: MUS 101, 102, 111, 113, 115, 117, 167, 330 (appropriate string pedagogy and literature course); at least 4 hours of applied music strings.

Bachelor of Music (B.M.) Program

Degree Offered: B.M.

Admission into the B.M. Program is by special audition.

COMPREHENSIVE MUSIC MAJOR

— 68 hours of Music required.
— Required courses: MUS 101, 102, 167, 203, 204, and two courses selected from among MUS 255, 256, 257, and 258; one applied music course on the major instrument each semester (may include Group Instruction Voice or Piano), including the successful completion of at least one semester of 200 level applied music; in addition, students must be enrolled for 1 hour of credit each semester they are in residence in Symphonic Band, Concert Band, Marching Band, Jazz Band, Orchestra, University Glee Club, Treble Choir, Civic Chorale, Concert Choir, Madrigal Singers, or Accompanying (for keyboard majors only).

Student also selects one of the five sequences below and completes requirements of that sequence. For students who select the Keyboard-Instrument, Voice-Performance or the Band and Orchestra Instruments sequence, the requirements are: three semesters of 200-level applied music, a partial junior recital, and a senior recital.

Music Theory-Composition Sequence: 12 additional hours in theory, composition, and theory pedagogy; electives to complete 68 hours. At least 8 hours of German strongly recommended.

Music History-Literature Sequence: 12 additional hours in music history and problems in music history; electives to complete 68 hours.

Keyboard Instrument Sequence: Performance/Pedagogy (Piano, Organ, Harpsichord): 4 hours of pedagogy and literature (MUS 330); 2 hours of functional keyboard skills and sight-reading (MUS 122); 4 hours of accompanying (MUS 240). This may be 4 of the 8 hours in music performing organizations required of BM majors. Students may petition to substitute 2 additional hours of MUS 330 in lieu of the senior recital; electives to complete 68 hours.

Voice Performance Sequence: Music 127 and 2 hours in vocal pedagogy and literature; electives to complete 68 hours.

Band and Orchestra Instruments Performance Sequence: 2 hours in pedagogy and literature on appropriate instrument; electives to complete 68 hours.

Music Therapy Certification Program

A music major who completes the requirements for a B.S., B.A., or B.M.E. degree, and who completes the required courses listed below in addition to a six-month internship sanctioned by the National Association for Music Therapy, Inc., may be certified as a registered music therapist. Required Music courses include: MUS 111, 113, 115, 117, 122, 126, 167, 194, 292 (4 hrs), 294, 340, 341, 360, 362, and 398. A competency test is required in guitar and piano. Required additional courses in other departments include: BSC or HPR 181; PSY 111, 231, 232, 240, 346; SAS 106 and 180. Students enrolled in Music Therapy must meet the requirements for a degree in music as well as the requirements established by the National Association for Music Therapy, Inc. Students enrolled in this program may expect

to exceed the general University requirement of 120 hours for graduation; 130-136 hours will normally be required to meet both Music Therapy and University requirements for graduation. The prospective music therapy student is encouraged to contact the Director of Music Therapy Program in the Department of Music before beginning coursework.

Music Courses

100 INTRODUCTION TO MUSIC

THEORY 3 **US-6**

F.S

Pitch and rhythmic notation, major-minor key system, sight reading of simple pitch, rhythmic patterns, diatonic melodies.

101 MUSIC THEORY AND HISTORY 6

MUS maj only or cons dept chair req.

F

Principles of rhythmic, melodic, and harmonic analysis; the cultivation of skills in ear training, sight singing, and repertory building; a general historical survey of Western music.

102 MUSIC THEORY AND HISTORY 6

MUS 101 or cons Theory Coord req.

S

Continuation of analysis techniques and skills-building; concentration on the music history and literature of the 17th and 18th centuries.

106 APPLIED MUSIC LABORATORY 0 F.S

Conc reg req with 100 level Applied Music (MUS 131-138).

F.S

111 GROUP INSTRUCTION IN BRASS 2

F.S

Incl Clin Exp.

Practical instruction in playing and methods of teaching all brass instruments.

113 GROUP INSTRUCTION IN STRINGS 2

F.S

Incl Clin Exp.

Practical instruction in playing and methods of teaching the violin, viola, cello and string bass.

115 GROUP INSTRUCTION IN WOODWINDS 2

F.S

Incl Clin Exp.

Practical instruction in playing and methods of teaching all woodwind instruments.

117 GROUP INSTRUCTION IN PERCUSSION 1

F.S

Incl Clin Exp.

Practical instruction in playing and methods of teaching percussion instruments.

118 SOCIAL-CLASS GUITAR 2

Student must supply non-electric guitar. May be repeated once for credit.

F.S

Elements of basic non-electric guitar; simple chords and melodies.

121 GROUP INSTRUCTION IN PIANO 2

F.S

For students who have had little or no formal piano study and who are not music maj or min. Enrollment and placement only by permission of the Group Piano Coord. May be repeated. Max 4 hrs.

Harmonization, sight-reading and transposition, technical studies, and solo ensemble repertoire.

122 GROUP INSTRUCTION IN PIANO 2

F,S

MUS maj min with little or no keyboard skills. Enrollment and placement by permission of the Piano Coord. A syllabus of piano proficiency requirements is available from the Music Office and the Group Piano Coord. May be repeated. Max 8 hrs.

126 GROUP INSTRUCTION IN VOICE 2

F.S

May be repeated.

Practical instruction in singing. English and Italian diction. Successful completion of 126 by audition before members of voice faculty is prerequisite for admission to 137.

127 FOREIGN LANGUAGE DICTION FOR SINGERS 2

S

MUS 126, cons inst or conc reg req.

German and French diction through the study of art songs in both languages.

131 - 138 APPLIED MUSIC 2 or 4 ea F.S

May be repeated. Permission of appropriate coord one sem in advance of req. Prereq for MUS 137 described in narrative for MUS 126. Conc reg MUS 106 req.

131, Brass; 132, Harpsichord; 132.10 Harp; 133, Organ; 134, Percussion; 135, Piano; 136, Strings; 137, Voice; 138, Woodwinds.

139 ENSEMBLE 1-2

F.S

May be repeated.

Study and performance of chamber music in a variety of combinations of instruments.

141 PIANO TUNING I 2

F.S

Piano Tuning is a course designed to offer tuning techniques as well as maintenance and mechanical information necessary for the care of grand and studio model pianos. Students enrolled in the course will tune, maintain, and repair Department of Music pianos.

151 SURVEY OF MUSIC LITERATURE 3 US-6

F.S

Music representative of the various periods and styles.

152 MUSIC OF 20TH CENTURY AMERICA 2

F.S

MUS 151 or cons inst req.

Particular eras, media, and styles are explored.

153 BLACK MUSIC I 3 US-6

F

A survey of those musical elements — rhythm, improvisation, vocal inflections, call and response — that define Black Folk Music.

154 BLACK MUSIC II 3

S

A survey of Black composers, arrangers, performers, and educators in the areas of Jazz, Blues, Gospel, Spirituals, Rhythm and Blues, and Western Classical music in the 20th century.

161 MARCHING BAND TECHNIQUES 2

F.S

Conc reg with participation in marching band, or reg during semester immediately following participation req.

Marching Band organization: field show planning and design.

165 OPERA PRACTICUM 1

F.S

May be repeated.

Practical experience in the staging of an opera or musical, with work ranging from set construction to leading roles.

167 BASIC CONDUCTING	2	F.S
Fundamentals, score reading, rehearsal procedures and practical experience in work with choral or instrumental media.		
171 BASIC MUSIC SKILLS	2	F.S
Basic skills and fundamentals of music for students in the Elementary and Special Education curricula who do not read music.		
181 - 188 PERFORMING ORGANIZATIONS	1	F.S
<i>Max 12 hours of 181 - 188 and 281 - 288 may be counted toward a degree.</i>		
Participation in the major organizations; 181, Symphonic Concert, or University Band; 182, Symphony Orchestra; 183, Chamber Wind Ensemble; 184, Concert Choir; 185, University Glee Club; 186, Treble Choir; 188, Civic Chorale.		
194 PRINCIPLES OF MUSIC THERAPY	3	F.S
<i>Not for credit if had former MUS 190, 191, and 192. Field observations req.</i>		
An introduction to music as a therapeutic agent in the rehabilitation and reorganization of the human being into social life. A survey of the history of the National Association for Music Therapy is included, as well as the processes and principles of music therapy as used by practicing music therapists.		
203 MUSIC THEORY AND HISTORY	6	F
<i>MUS 102 or cons Theory Coord req.</i>		
Contrapuntal techniques, chromatic harmony, and 20th century analytical techniques; concentration on the music history and literature of the 19th and 20th centuries.		
204 MUSIC THEORY AND HISTORY	6	S
<i>MUS 203 or cons Theory Coord req.</i>		
A study of the theory, history, and literature of Western music from the 6th through the 16th centuries.		
205 COMPOSITION	2	F.S
<i>May be repeated.</i>		
This course is designed to develop individual creative talents of students in musical composition. Students will progress from the composing of well-balanced musical phrases to works in small forms for piano, choral groups, and small musical ensembles.		
206 APPLIED MUSIC LABORATORY	0	
<i>Conc reg req with 200 level Applied Music.</i>		
209 ORCHESTRATION	2	F
Scoring for orchestras and bands, focusing on tonal balance, color, timbre, and technical problems.		
210 CHORAL ARRANGING	2	
Arranging music for large and small vocal ensembles; emphasis on needs of public school vocal teacher.		
218 JAZZ IMPROVISATION I	2	F
<i>Cons inst req.</i>		
Fundamentals in improvising or extemporaneous playing; opportunity to perform improvised solos, both on standard chord changes and original compositions.		
231 - 238 APPLIED MUSIC	2 or 4 ea	F.S
<i>May be repeated. Permission of appropriate coord one sem in advance of reg req. Conc reg MUS 206 req.</i>		
Advanced brass, 231; harpsichord, 232; organ, 233; percussion, 234; piano, 235; strings, 236; voice, 237; woodwinds, 238.		
239 ENSEMBLE	1-2	F.S
<i>May be repeated.</i>		
Study and performance of chamber music in a variety of combinations of instruments.		
240 ACCCOMPANYING	1	F.S
<i>May be repeated.</i>		
Technique and skills of accompanying singers and instrumentalists, including experience in providing accompaniments for other students.		
250 ARTS AND THE MODERN WORLD	3	US-6 F.S
<i>Also offered as ART 250 and THE 250.</i>		
Selected works from music, theatre and visual arts that amplify the roles, definitions and capabilities of art as a humanistic value enterprise in contemporary life.		
253 MUSIC HISTORY AND LITERATURE THROUGH THE 17TH CENTURY	3	F
Developments, trends, styles, genres and significant composers in Western music history from the Greeks to the time of Bach and Handel.		
254 MUSIC HISTORY AND LITERATURE FROM THE 18TH CENTURY TO THE PRESENT	3	S
Developments, trends, styles, genres and significant composers in Western music history from the early Classical period through the Twentieth Century.		
255 MUSIC HISTORY AND LITERATURE, 20TH CENTURY	3	S
<i>MUS 204 or cons inst req.</i>		
Survey of Twentieth century styles, popular to learned, conventional to avant-garde, with emphasis on the literature of music.		
256 MUSIC HISTORY AND LITERATURE OF THE 17TH AND 18TH CENTURIES	3S	
<i>MUS 204 or cons inst req.</i>		
Development of music during the 17th and 18th centuries including nationalities, schools, styles, and forms.		
257 MUSIC HISTORY AND LITERATURE OF THE 19TH CENTURY	3	F
<i>MUS 204 or cons inst req.</i>		
Musical developments in the 19th century; romanticism, impressionism, the orchestra, opera, art song, other large and small forms.		
258 MUSIC HISTORY AND LITERATURE OF THE RENAISSANCE	3	F
<i>MUS 204 or cons inst req.</i>		
Artistic and social conditions of the 15th and 16th centuries in Europe, sacred and secular vocal music, instruments, forms, theoretical practices.		
259 AESTHETIC EXPERIENCE	1	F.S
<i>May be repeated. Max 3 hrs. Also offered as ART 259 and THE 259.</i>		
One hour of credit is available on a credit-no credit basis for attendance at 15 fine arts events. One class meeting per week is used to introduce future events and to analyze past events.		
261 INSTRUMENTAL TECHNIQUES	4	F
<i>C&I 200 (6 hrs.) or 200.03 (grade of C or better req.) or 215 (2 hrs.) or conc reg req. Incl Clin Exp.</i>		
Problems and procedures in developing instrumental classes and organizations.		
262 MUSIC EDUCATION	4	F.S
<i>C&I 200 (6 hrs.) or 200.03 (grade of C or better req.) or</i>		

215 (2 hrs.) or conc req. Incl Clin Exp. Cons dept chair for non-MUS maj.

Survey of music in the kindergarten and grades one through eight; current practices in teaching music; materials used for singing, listening, rhythmic activities, creating, and playing; planning of music suitable for the activities program.

264 MUSIC EDUCATION 4 F.S

C&I 200 (6 hrs.) or 200.03 (grade of C or better req.) or 215 (2 hrs.) or conc reg req. Incl Clin Exp. Cons dept chair for non-MUS maj.

Problems and procedures in developing vocal classes and choral organizations for grades seven through twelve.

265 OPERA PRACTICUM 1 F.S
May be repeated.

Practical experience in the staging of an opera or musical with work ranging from set construction to leading roles.

268 CONDUCTING (CHORAL) 2 F.S
MUS 167 or cons inst req.

Further development of conducting skills; principles of vocal production, rehearsal procedures, and problems of conducting choral music from all historical periods.

269 CONDUCTING (INSTRUMENTAL) 2 F.S
MUS 167 or cons inst req.

Further development of conducting skills with attention given to interpretation of representative instrumental works of master composers.

270 MUSIC LITERATURE FOR CHILDREN 2 F.S

For teachers, principals, and supervisors in elementary schools.

Music interests of children in the various grades; music literature to develop these interests and promote growth; music suitable for use in various units in activities program.

281 - 288 PERFORMING ORGANIZATIONS 1 F.S

Max 12 hours of 181 - 188 and 281 - 288 may be counted toward a degree.

Participation in major organizations: 281, Symphonic, Concert, or University Band; 282, Symphony Orchestra; 283, Chamber Wind Ensemble; 284, Concert Choir; 285, University Glee Club; 286, Treble Choir; 288, Civic Chorale.

292 MUSIC THERAPY PRACTICUM 1 F.S

May be repeated. Max 4 hrs. Course is offered on a credit/no credit basis only.

Supervised practical experience in therapeutic music situations in various institutions in the area.

294 MUSIC AND RECREATION 3 F.S
MUS 194 or cons inst req. Ability to read music. Field experiences req.

Techniques and skills essential in the prescription, organization and procedures of leading recreational music activities within therapeutic settings. Development of functional skills on social instruments.

301 FORM AND ANALYSIS IN MUSIC 3 F

Structure of music from simple binary and ternary forms to rondo, theme and variations, and sonata forms.

305 COMPOSITION 3 F.S
May be repeated.

Free composition in larger forms.

307 SURVEY OF MUSIC THEORY 2 F

Review of analytical techniques and procedures. Emphasis on tonal music.

309 ADVANCED ORCHESTRATION 3 S
MUS 209 or cons inst req.

330 PEDAGOGY AND LITERATURE 2 F.S
May be repeated. More than one area may be taken concurrently.

Methods of teaching, class and individual instruction; emphasis on technique and a comparison of various teaching procedures. Survey of important literature and composers for each medium. Brass, woodwind, percussion, voice, strings, piano, organ.

331 - 338 APPLIED MUSIC 2 or 4 ea F.S
May be repeated. Permission of appropriate coord one sem in advance of reg req.

Individual instruction: 331, Advanced brass; 332, Harpsicord; 332.10 Harp; 333, Organ; 334, Percussion; 335, Piano; 336, Strings; 337, Voice; 338, Woodwinds.

340 INFLUENCE OF MUSIC ON BEHAVIOR 3 F.S
Sr standing or cons inst req.

A study of the cultural, physiological, and psychological aspects of music with applications to the music therapy field.

341 MUSIC IN THERAPY 3 F.S
MUS 340 or cons inst req.

A study of the theory, current practices, and research in the field of music therapy.

360 INTRODUCTION TO PSYCHOMUSICOLOGY 3 F

An introduction to the psychology of music behavior and cognition. Topics include music perception, memory, and learning and their relation to the sensory, formal, and expressive properties of music.

362 FIELD DATA COLLECTION IN MUSIC THERAPY 1 F.S
Sr. standing, MUS 360, or cons inst req.

Field experience in experimental research and behavioral data collection and evaluation as applied to the field of music therapy.

363 CHORAL TECHNIQUES 3 F
Course in conducting or practical experience req.

Choral rehearsal techniques as used in contemporary music education and other choral performance. Materials for learning and repertoire development, emphasizing modern trends.

364 CURRENT ISSUES IN MUSIC EDUCATION 1-3 F
May be repeated. Max 5 hrs.

Current trends in all areas of Music Education. Course is open to both majors and non-majors.

365 OPERA PRACTICUM 1 F.S
May be repeated.

Practical experience in the staging of an opera or musical with work ranging from set construction to leading roles.

371 MUSIC FOR THE EXCEPTIONAL CHILD 3 F.S

Trends in music education for exceptional children. Techniques and materials for a functional program of singing, playing, listening, and creative activities.

384 OPERA PRODUCTION 3 F.S
Approval Music Theatre Director req. May be repeated.

Problems of presenting specific representative works from music theatre repertoire.

391 MUSICAL STYLES OF THE RENAISSANCE PERIOD 3 F
MUS 204 req. Formerly MUSICAL STYLES IN THE RENAISSANCE.

An analytical inquiry into the compositional techniques evidenced in selected, representative works by major composers of the period.

392 MUSICAL STYLES OF THE BAROQUE PERIOD 3 S
MUS 204 req.

An analytical inquiry into the compositional techniques evidenced in selected, representative works by major composers of the period.

394 MUSICAL STYLES OF THE CLASSICAL PERIOD 3 F
MUS 204 req.

An analytical inquiry into the compositional techniques evidenced in selected, representative works by major composers of the period.

395 MUSICAL STYLES OF THE ROMANTIC PERIOD 3 S
MUS 204 req.

An analytical inquiry into the compositional techniques evidenced in selected, representative works by major composers of the period.

396 MUSICAL STYLES OF THE TWENTIETH CENTURY 3
MUS 204 req.

An analytical inquiry into the compositional techniques evidenced in selected, representative works by major composers of the period.

398 PROFESSIONAL PRACTICE: CLINICAL INTERNSHIP IN MUSIC THERAPY 1 F.S.Summer
Acceptance into a clinical training facility affiliated with the National Association for Music Therapy req. May be repeated. Max 2 hrs.

Professional application of current treatment and evaluation procedures in a clinical setting.

THEATRE (THE)

212 Centennial West

Chairperson: Alvin Goldfarb.

Faculty: Professors: Andreassen, Kirk, Lane, Pritner, Scharfenberg. Associate Professors: Bickley, Goldfarb, Harris Ruyle, Vybiral. Assistant Professors: Entwistle, Ervin, Grund, LaCasse, Leaf, Ritch, Sabath, Wainscott, Walker, Wilhelm.

Bachelor of Arts (B.A.) and Bachelor of Science (B.S.) Theatre Programs

Degrees Offered: B.A., B.S., B.S. in Ed.

COMPREHENSIVE THEATRE MAJOR

Acting-Directing Sequence: 55 hours in Theatre required. Required courses: THE 100, 101, 110, 111, 112/312, 113/313, 130, 160, 237, 240, 260, 340, 376, 377, and THE electives to complete 55 hours. It is recommended that Acting/Directing students complete at least 6 hours of

course work in Physical Education and Dance, to be selected from the following list: HPR 111, 113, 120, 123, 124, 133.40, 133.41, 133.43, 139, 140, 140.02, 143, 143.02, 163, 165, 166, 167, 269.

Theatre Production Sequence: 55 hours in Theatre required. Required courses: THE 100, 110, 130, 160, 237, 240, 260, 261, 362, 376, 377: 6 hrs. to be selected from THE 330, 331, 333, 361, 363: THE electives to complete 55 hours.

Theatre majors are encouraged to participate in at least one University Theatre production each semester. Credit in THE 102, or 302 may be earned for this participation. Students are encouraged to earn practicum credit in at least four different areas of theatre experience, such as costume, technical, management, acting, lighting, makeup. All students may audition for productions after they have achieved second semester freshman status.

MAJOR IN THEATRE EDUCATION

— 42 hours in Theatre required. Part of entitlement program leading to certification: secondary 6-12.
 — Required courses: THE 100, 101, 110, 113/313, 130, 160, 185 (2 hrs), 237, 240, 280, 285 (2 hrs), 376, 385 and one course selected from THE 260, 340 or 341.

Student participation as described under the Comprehensive Theater Major applies to this program also. Students are required to enroll in THE 185/285 for a minimum of 1/2 credit hour their first semester and to complete a total of 4 credit hours of prescribed field activities in Theatre Education as a part of their program. The department recommends that students who plan to teach in high school take COM 125, 160, and 223.

MINOR IN THEATRE

— 24 hours in Theatre required.
 — Required courses: 100, 101, 110, 130, 160, and 240; 4 hours from 376 and 377; THE electives to complete 24 hours.

MINOR IN THEATRE EDUCATION

— 24 hours in Theatre required.
 — Required courses: THE 100, 101, 110, 160, 240, 260, 385 and THE electives to complete 24 hours.
 The department recommends that students who plan to teach in high school take COM 125, 160 and 223.

Bachelor of Fine Arts (B.F.A.) Theatre Program

Degree Offered: B.F.A.

The Bachelor of Fine Arts Degree is conceived by the Department of Theatre as: (1) a professional undergraduate program that prepares students in a more highly specialized and directed way to enter professional fields in acting and costume/stage design, and graduate programs in the fine arts; (2) a program devised for the student devoted to a career in the fine arts; (3) a program where students may receive early recognition, specialized career guidance, and achieve a level of competency that permits them to compete for career opportunities in the field of theatre (acting or costume/ stage design); and (4) a program that permits a high degree of concentration in specific subject areas. Students must audition for and be admitted to the BFA program. Theatre programs are accredited by the National Association of Schools of Theatre.

COMPREHENSIVE B.F.A. THEATRE MAJOR

Acting Sequence: 68 hours in Theatre and related areas required. Required courses: THE 100, 101, 110, 111, 112/312, 113/313, 130, 160, 210, 211, 237, 240, 317, 318, 319, 320, 321, 322, 323, 340, 376, and 377. Elective courses: 3 hours of Theatre electives, and 8 hours of Dance/Physical Education electives.

Costume/Design Sequence: 68 hours in Theatre and related areas required. Required courses: THE 100, 110, 130, 160, 237, 240, 260, 261, 362 363, 376, 377; ART 155, 156, 257; and at least one hour of THE 364 each semester after acceptance into the BFA program up to a maximum of 6 hours. In addition, requirements for students specializing in costume include THE 330, 331, 332, and 333; requirements for students specializing in Scene Design include THE 361, 365, 367, and HEC 338. Additional Theatre electives to complete major requirements.

Theatre Courses**100 INTRODUCTION TO THE LITERATURE OF THE THEATRE 3 F.S**

Formerly THE 111.

Survey of literature of theatre from the Greeks to the present. Emphasis is on the study of structure, genres, and history of the period in which the play was produced.

101 ORAL INTERPRETATION OF LITERATURE 3 F.S

Some sections reserved for Theatre or Mass Communication majors. Formerly THE 141.

The individual performance of non-dramatic literature as a means of improving performance skills and as an approach to the study of literature.

102 THEATRE PRACTICUM 1-2 F.S

Formerly THE 150. May be repeated. Course offered on a credit/no credit basis only.

Production experience in the areas of acting, costume, and scenery preparation, production crew, box office, and stage management.

103 THEATRE ENCOUNTER 1-3 F.S

May be repeated. Max 6 hrs. Not for credit for first semester freshmen. Formerly THE 139.

Student-initiated projects in acting, directing, design, and playwriting presented and critiqued. Emphasis is on process rather than final product.

110 BASIC ACTING 3 F.S

Maj min only. Cons inst req. May be repeated. Max 6 hrs. Formerly THE 134.

Basic skills and concepts of acting. Exploration of the actor's internal (psychological-emotional) resources through exercises, discussions and performance projects.

111 VOCAL TECHNIQUE FOR THE ACTOR 3 S

THE 110 or equiv and cons inst req. Formerly THE 126.

Introductory studies and exercises in relaxation, breathing, alignment, tonal focus and articulation, leading to an understanding of vocal life and the special vocal demands placed upon the actor.

112 IMPROVISATION 3 F

THE 110 or equiv and cons inst req. Not for credit if had THE 312. Formerly THE 152.

Detailed exploration of improvisational skills as a tool for rehearsals and performance.

113 SCRIPTED MATERIAL 3 S

THE 110 or equiv and cons inst req. Not for credit if had THE 313. Formerly THE 153.

Analysis, rehearsal and performance of representative scripts.

114 ACTING STYLE:DISCOVERY AND PERFORMANCE 3 F.S

THE 110 or equiv and cons inst req. May be repeated. Formerly THE 136.

Analysis, rehearsal and performance technique examined through the work of a particular playwright.

115 ACTING: EXPLORING CHARACTERIZATION THROUGH ANIMAL EXERCISES 3 S

THE 110 or equiv and cons inst req. May be repeated. Formerly THE 135.

Techniques of actor research and characterization using animal models. Exploration of primitive behavior patterns requiring the actor's total physical and psychological commitment.

116 ACTING FOR THE MUSICAL THEATRE 3 S

Cons inst req. Not for credit if had THE 316. Formerly THE 138.

A study of acting problems inherent in performing for various forms of musical theatre. Work to include preparation of musical numbers and scenes.

117 SPECIALIZED VOCAL TECHNIQUE I 3 F

THE 111 and cons inst req. Formerly THE 127.

Advanced studies in vocal discipline for actors, including exercises in breath control, relaxation, alignment, tonal focus and articulation.

130 INTRODUCTION TO COSTUME 3 F.S

Lab arranged. Materials charge optional. Formerly THE 125.

Study and practical application of costume construction techniques and the study of basic costume design practice.

150 INTRODUCTION TO THE THEATRE 3 US-6 F.S

Not for credit maj min. Formerly THE 101.

Special attention to the productions being given during the semester.

151 HISTORY OF THE THEATRE IN WESTERN CULTURE 3 US-2 F.S

Not for credit maj min.

An introductory survey of the history of the Western theatre from its origins to the present, with particular emphasis on the influences of previous theatrical periods on the theatre of our time.

152 EXPLORING THE RESIDENCE HALL EXPERIENCE THROUGH DRAMA 3 F.S

Formerly THE 132.

Residence life is explored through creative drama, that is used as a content area and as a problem-solving strategy for personal growth.

153 INTRODUCTION TO ACTING 3 F.S

Not for credit maj min. Formerly THE 131.

Introduction to process and nature of acting; variety of theatre experiences to encourage an understanding and appreciation of actor's craft.

154 INTRODUCTION TO BLACK DRAMA AND THEATRE 3 F

Formerly THE 146.

Exploration of the plays of the Afro-American dramatist

from the Harlem Renaissance to the Black Arts Movement through lecture, discussion, and workshop techniques.

160 STAGECRAFT 3 F.S
Lab req or conc reg. THE 102 or 302 req. Formerly THE 151.

Theory and technique of basic construction and rigging procedures.

170 INTRODUCTION TO FILM ART 3 US-6 F.S
Formerly THE 159 and THE 100.

Artistic and social values of the cinema as a contemporary art form. Screening and discussion of selected films.

171 HISTORY OF THE AMERICAN FILM 3 S
 The art and thought of 20th Century American life as interpreted through the film.

183 PUPPETRY 3
Also offered as ART 183.

Introduction to the performance art of puppetry and its educational applications: history, staging and construction and manipulation of hand, rod, and shadow puppets.

185 CONTINUING ORIENTATION TO THEATRE EDUCATION I 1/2 F.S

Enrollment limited to Theatre Education majors, who must enroll for 1/2 credit per semester for 8 semesters in THE 185 and 285 for a total of 4 hours. Concurrent enrollment may be arranged; exceptions (especially for transfer students) to the semester requirement by consent of the chairperson of the department. Course is structured as a self-instructional program with a series of required experiences and sequential developmental evaluations which are to be completed prior to student teaching. Students will be required to attend formal class meetings during their initial semester to review procedures for observation and participation in individualized field experiences in theatre education. Succeeding semesters of enrollment are on a self-instructional basis with individual conferences scheduled for advisement and assessment. Course is offered on a credit/no credit basis. Materials charge optional.

The principles of administering a secondary school theatre program as a learning facilitator, co-curricular director, and theatre professional.

210 ACTING STYLES FOR ADVANCED UNDERGRADUATES I: EMPHASIS ON CONTENT 4 F
THE 110, 111, 112, 113 or equiv and cons inst req.

Study of acting styles through performance of selected scenes, principal emphasis on evocation of psychological truth.

211 ACTING STYLES FOR ADVANCED UNDERGRADUATES II: EMPHASIS ON FORM 4 S
THE 210 and cons inst req.

Study of acting styles through performance of selected scenes, principal emphases on rhetorical and comic forms.

237 STAGE MAKE-UP 2 F.S
THE 100 req. Materials charge optional. Formerly THE 225.

Introduction to make-up technique through lecture-demonstration and laboratory practice. Development of ability in corrective and prosthetic make-up for characterization.

240 PRINCIPLES OF STAGE DIRECTION 3F,S
THE 100, 160 req. Formerly THE 237.

Acquaints the student with the basic principles of stage

direction and provides a basic vocabulary and methodology.

250 ARTS AND THE MODERN WORLD 3 US-6 F.S
Also offered as ART 250 and MUS 250.

Selected works from music, theatre, and visual arts that amplify the roles, definitions, and capabilities of art as a humanistic value enterprise in contemporary life.

259 AESTHETIC EXPERIENCE 1 F.S
May be repeated. Max 3 hrs. Also offered as ART 259 and MUS 259.

One hour of credit is available on a credit-no credit basis for attendance at 15 fine arts events. One class meeting per week is used to introduce future events and analyze past events.

260 TECHNICAL PROCEDURES 3 F.S
THE 160 req. Formerly THE 251.

Procedures and problems of technical production.

261 LIGHTING FOR STAGE AND TELEVISION 3 F
Formerly THE 266.

Instrumentation, aesthetics, application of theatrical and television lighting through classroom-laboratory study.

270 THE DOCUMENTARY IN FILM AND BROADCASTING 3 S
Also offered as COM 270.

Historical, philosophical and theoretical consideration of documentary approach in films, television and radio.

280 CREATIVE DRAMA 3 F.S
Observations and practical activities req. Not for credit if in Elementary Education Core Program. Formerly THE 232.

Study of the theory and use of drama in classrooms, camps, youth groups, and other instructional situations. Provides an awareness of personal creative potential through drama.

285 CONTINUING ORIENTATION TO THEATRE EDUCATION II 1/2 F.S
Materials charge optional. Formerly THE 202.

Continuation of THE 185: The principles of administering a secondary school theatre program as a learning facilitator, co-curricular director and theatre professional.

302 THEATRE PRACTICUM 1-3 F.S
May be repeated. Course offered on a credit/no credit basis only for undergraduates. For graduate credit the course is graded (A-F). Formerly THE 350.

Production experience in the areas of acting, costume, and scenery preparation, production, crew, box office, and stage management.

303 THEATRE ENCOUNTER 1-3 F.S
May be repeated. Max 6 hrs. Cons inst req. MFA students may enroll for credit in each term of residency. Formerly THE 339.

Student-initiated projects in acting, directing, design, and playwriting presented and critiqued. Emphasis is on process rather than final product.

309 DIRECTED PROJECTS 1-3 F.S
Cons inst req. May be repeated. Formerly THE 380.

Individually supervised study for the advanced student.

311 VOCAL TECHNIQUE FOR THE ACTOR 3 S
THE 110 or equiv and cons inst req. Formerly THE 326.

Introductory studies and exercises in relaxation, breathing, alignment, tonal focus and articulation, leading to an understanding of vocal life and the special vocal demands placed upon the actor.

312 IMPROVISATION	3	F
<i>THE 110 or equiv and cons inst req. Not for credit if had THE 112. Formerly THE 352.</i>		
Detailed exploration of improvisational skills as a tool for rehearsal and performance.		
313 SCRIPTED MATERIAL	3	S
<i>THE 110 or equiv and cons inst req. Not for credit if had THE 113. Formerly THE 353.</i>		
Analysis, rehearsal and performance of representative scripts.		
314 ACTING STYLE: DISCOVERY AND PERFORMANCE	3	F,S
<i>THE 110 or equiv and cons inst req. May be repeated. Formerly THE 336.</i>		
Analysis, rehearsal and performance technique examined through the work of a particular playwright.		
315 ACTING: EXPLORING CHARACTERIZATIONS THROUGH ANIMAL EXERCISES	3	S
<i>THE 110 or equiv and cons inst req. May be repeated. Formerly THE 335.</i>		
Techniques of actor research and characterization using animal models. Exploration of primitive behavior patterns requiring the actor's total physical and psychological commitment.		
316 ACTING FOR THE MUSICAL THEATRE	3	S
<i>Cons inst req. Not for credit if had THE 116. Formerly THE 338.</i>		
A study of acting problems inherent in performing for various forms of musical theatre. Work to include preparation of musical numbers and scenes.		
317 SPECIALIZED VOCAL TECHNIQUE I	3 F	
<i>THE 111 or equiv and cons inst req. Formerly THE 327.</i>		
Advanced studies in vocal discipline for actors, including exercises in breath control, relaxation, alignment, tonal focus and articulation.		
318 SPECIALIZED VOCAL TECHNIQUE II	3 S	
<i>THE 317 or cons inst req. Formerly THE 328.</i>		
Further development of the actor's vocal discipline and resources focusing on specialized textual study, character acting and vocal improvisation.		
319 STAGE DIALECTS	3	F
<i>THE 318 or equiv and cons inst req.</i>		
Emphasis on acquiring performance facility in a number of representative stage dialects.		
320 STAGE MOVEMENT I	3	F
<i>Cons inst req.</i>		
Fundamental principles of stage movement; physical improvisation; traditional stage deportment; performing in period costumes.		
321 STAGE MOVEMENT II	3	F
<i>THE 320 and cons inst req.</i>		
Advanced movement techniques including a study of period dances, stage violence, and mime.		
322 AUDITIONING	3	F
<i>THE 314 or 411 and cons inst req.</i>		
Preparation, performance and evaluation of numerous audition projects; discussion of the actor's search for employment in the professional theatre.		
323 DIAGNOSTIC STUDIO FOR ACTORS	3 S	
<i>THE 322 and cons inst req.</i>		
Performance work specifically and individually devised to treat the diagnosed needs of each student's development as an actor.		
330 THEATRICAL COSTUME DESIGN	3	S
<i>THE 130 req. May be repeated. Max 6 hrs toward master's degree. MFA student may enroll for credit in each term of residency. Formerly THE 377.</i>		
Research and practical application to theatrical costume designing; use of dramatic analysis.		
331 HISTORY AND STYLES OF STAGE COSTUMING	3	F
<i>THE 130 req. Formerly THE 334.</i>		
The costume's reflection of cultural and social milieu, and the costume's application to the stage.		
332 COSTUME CONSTRUCTION	3	S
<i>THE 130 and cons inst req. Lab arranged.</i>		
Pattern drafting, draping, fitting, and specialized construction techniques for the theatrical costume craftsman.		
333 COSTUME CRAFTS	3	
<i>THE 130 req. Materials charge optional. Formerly THE 325.</i>		
Theory and technique of costume construction and use of special materials.		
340 DIRECTING WORKSHOP	3	F,S
<i>THE 240 req. May be repeated. Max 6 hrs toward degree program. Formerly THE 337.</i>		
Principles and methodologies of stage direction applied to particular problems in a workshop format.		
341 ORAL INTERPRETATION OF LITERATURE II	3	S
<i>THE 101 req.</i>		
A study of the group forms of Interpretation--Readers Theatre and Chamber Theatre, with experiences to provide the student with practical applications of theory and principle.		
344 PRINCIPLES OF THEATRE MANAGEMENT	3	
<i>Lab arranged. Formerly THE 360.</i>		
Course introduces and demonstrates the practices and procedures of theatre management in today's theatre.		
348 PLAYWRITING	3	
<i>Also offered as ENG 348.</i>		
Playwriting techniques of selected masters with practical application of techniques in writing original plays.		
361 ADVANCED STAGE LIGHTING	3	S
<i>THE 160, 260 req. Formerly THE 330.</i>		
Lighting design for proscenium and non-proscenium production; attention to system design.		
362 STAGE DESIGN	3	F
<i>THE 160, 260 req. Formerly THE 331.</i>		
Nature, function, and aesthetics of scene design, with practice in composition.		
363 ADVANCED DESIGN	3	S
<i>THE 362 req. May be repeated. Max 6 hrs toward master's degree. MFA student may enroll for credit in each term of residency. Formerly THE 340.</i>		
Intensive work in the areas of design and rendering for the stage; emphasis upon new materials and techniques.		
364 ADVANCED PROJECTS IN DESIGN	2-4	F,S
<i>May be repeated. Formerly THE 342.</i>		
A study of design and production problems as they relate to productions being mounted by the Department of Theatre. Emphasis placed upon creative and collaborative aspects of producing theatre.		
365 SCENE PAINTING	3	F
Development of the skills necessary for the organization,		

preparation, and execution of painted scenery for the stage.

367 SCENOGRAPHIC TECHNIQUES 3 S

IT 210 or equiv req. Formerly THE 349.

A study of descriptive geometry and drafting techniques that are necessary in developing three dimensional stage space and scenic units into plans, elevations, and working drawings.

370 HISTORY OF THE CINEMA 3 F.S

Lab: screening of significant films. Formerly THE 300.
Historical and aesthetic development of the cinema.

371 FILM THEORY AND CRITICISM 3 F

Formerly THE 365.

Theories relating to art of filmmaking.

376 THEATRE HISTORY I 4 F

THE 100 req. Formerly THE 346.

The study of the history of drama and theatrical production from their origin to approximately 1775.

377 THEATRE HISTORY II 4 S

THE 100, 376 req. Formerly THE 347.

The study of the history of drama and theatrical production from the late eighteenth century to the present.

378 SHAKESPEARE ON STAGE 3 Summer

May be repeated once. Also offered as ENG 378.

An intensive study of Shakespeare's plays in production. For the student with adequate familiarity with Shakespeare and his works.

380 ADVANCED CREATIVE DRAMA 3 F.S

THE 280 or C&I 250 req. Formerly THE 332.

In-depth work in creative drama. Includes drama experiences, examining theories comparing teacher strategies, and developing curricula.

381 CREATIVE DRAMA PRACTICUM 2-3 F.S

THE 280 or C&I 250 and cons inst req. Formerly THE 333. Course offered on a credit/no credit basis only for undergraduates. For graduate credit, the course is graded (A-F).

Students will gain practical experience in creative drama teaching by leading a class in drama under faculty supervision for a semester.

385 PRINCIPLES OF THEATRE EDUCATION 5 F

THE 285, C&I 200 (6 hours) or 200.03 (grade of C or better req.) or 215 (2 hours) or conc reg req. Incl Clin Exp. Formerly THE 301.

Philosophies of theatre education, teaching strategies, co-curricular programs, textbook analyses, professional organizations, and related field experience.

University Faculty and Administrative Staff

The following is a list of faculty and administrative staff members as of the first semester of the 1982-83 academic year. The listing reflects academic ranks, titles, and assignments in effect during 1982-83. The date following the name of the person indicates the year of joining the Illinois State University staff. Only the highest academic degree is indicated for each faculty member.

Ahmed A. Abdel-Halim (1970)

Chairperson, Department of Management and Marketing
Professor, Department of Management and Marketing
Ph.D., University of Illinois

Ellen M. Abshire (1960)

Assistant Professor, Department of Health, Physical Education, Recreation and Dance
M.S., Indiana University

John Q. Adams (1978)

Community Education Specialist
Instructor, Department of Curriculum and Instruction
M.S. in Ed., Indiana University

Steven L. Adams (1976)

Associate Director of Admissions and Coordinator of School and College Relations
B.S., Illinois Wesleyan University

Vernon A. Adams (1970)

Assistant to the President of the University
Adjunct Associate Professor, Department of Educational Administration and Foundations
Ph.D., University of Illinois

Laura L. Addison (1962)

Assistant Librarian
Associate Professor of Library Science
M.A., University of Denver

Rodney J. Ahitow (1980)

Adjunct Lecturer, Department of Criminal Justice Sciences
M.A., Bradley University

Larry T. Albaugh (1978)

Faculty Associate in University High School
B.S. in Ed., Illinois State University

Richard N. Albert (1963)

Assistant Professor, Department of English, and University High School
M.S., The University of Wisconsin

Michael J. Alderson (1981)

Instructor, Department of Finance and Law
M.S., University of Illinois

Diane Marie Alexander (1982)

Lecturer, Department of Criminal Justice Sciences
M.S., Illinois State University

Jean C. Alexander (1979)

Assistant Professor, Department of Foreign Languages
Ph.D., University of Toronto

Wilma J. Alexander (1970)

Acting Chairperson, Department of Business Education and Administrative Services
Professor, Department of Business Education and Administrative Services
Ed.D., Oklahoma State University

Robert B. Allan (1978)

Lecturer, Department of Music
M.S. in Ed., Illinois State University

Dennis H. Aldridge (1980)

Director, Illinois Special Olympics
B.S., Eastern Illinois University

Andrew T. Allen (1982)

Instructor, Department of Economics
M.S., University of Illinois

Donald R. Allen (1978)

Assistant to the Director, Department of Measurement and Evaluation Service
B.S., Illinois State University

Richard E. Allen (1963)

Associate Professor, Department of English
Ph.D., Washington University

James J. Alstrum (1981)

Assistant Professor, Department of Foreign Languages
Ph.D., Vanderbilt University

Kathryn D. Alvarado (1982)

Adjunct Instructor, Department of Health Sciences
B.S., Northern Illinois University

Peter Alvino (1982)

Faculty Associate in Metcalf Elementary School
Ed.D., Northern Illinois University

Stanley G. Aman (1981)

Assistant Professor, Department of Industrial Technology
Ed.D., Auburn University

George T. Amerson (1978)

Associate Professor, Department of Specialized Educational Development
Ed.D., University of Oregon

Stephanie H. Amster (1970)

Associate Professor, Department of Art
M.F.A., The University of Texas

Susan F. Amster (1972)

Associate Professor, Department of Art
Ph.D., The University of Texas

Barbara S. Anderson (1981)

Assistant Librarian
Instructor in Library Science
M.L.S., University of Pittsburgh

Diane Hodges Anderson (1971)

Counselor, Student Counseling Center
M.S., Illinois State University

Edward T. Anderson (1965)

Dean, College of Continuing Education and Public Service
Professor, Department of Industrial Technology

Frances E. Anderson (1970)

Professor, Department of Art
Ed.D., Indiana University

Gregory L. Anderson (1980)

Lecturer, Department of Criminal Justice Sciences
M.A., Sangamon State University

Karen L. Anderson (1977)

Director, Laboratory Schools Special Education
Adjunct Instructor, Department of Curriculum and Instruction
Ed.D., Illinois State University

Paul S. Anderson (1982)

Assistant Professor, Department of Geography-Geology
Ph.D., The Australian National University

Roger C. Anderson (1976)

Professor, Department of Biological Sciences
Ph.D., The University of Wisconsin

Ronny C. Anderson (1973)

Assistant Dean of Student Affairs
M.A., The University of Chicago

Louis E. Andrade (1967)

Assistant Professor, Department of Philosophy
Ph.D., The University of Nebraska

Edward A. Andreasen (1967)

Professor, Department of Theatre
M.A., Michigan State University

Wayne D. Andrews (1977)

Associate Professor, Department of Industrial Technology
Ed.D., West Virginia University

Larry D. Anthon (1980)

Adjunct Instructor, Department of Health, Physical Education, Recreation and Dance
M.S., Utah State University

Sowai Aneyeti (1981)

Assistant Professor, Department of Economics
Ph.D., Northwestern University

Steven L. Arendell (1982)

Faculty Assistant, Department of Industrial Technology
B.S., Illinois State University

Ruben R. Arjona (1982)

Assistant Athletic Trainer, Intercollegiate Athletics
B.S., Upper Iowa University

Susan B. Arkless (1978)

Faculty Associate in Laboratory Schools Special Education
B.S. in Ed., Illinois State University

Starletta P. Barber (1982)

Tutor, High Potential Students Program
Instructor, Department of English
M.A., Eastern Illinois University

Wendy S. Bareither (1979)

Faculty Associate in Laboratory Schools Special Education
B.S. in Ed., Illinois State University

Drucilla K. Barker (1981)

Lecturer, Department of Economics
B.A., Sonoma State University

JoAnne Arkow (1981)

Instructor, Department of Accounting
M.S., Illinois State University

Donald J. Armstrong (1966)

Professor, Department of Music
D.M.A., The University of Texas

Joseph E. Armstrong (1978)

Assistant Professor, Department of Biological Sciences
Ph.D., Miami University

Karen S. Arnold (1981)

Faculty Associate in Metcalf Elementary School
B.S. in Ed., Illinois State University

Margaret B. Arter (1982)

Adjunct Instructor, Department of Sociology, Anthropology and Social Work
M.S.W., St. Louis University

Candace J. Arthur (1977)

Assistant Librarian
Assistant Professor of Library Science
M.S., University of Illinois

Barbara G. Artman (1981)

Head Teacher, Child Care Center
B.S. in Ed., Illinois State University

George F. Aspbury (1970)

Assistant Professor, Department of Geography-Geology
Ph.D., The University of Michigan

Roy A. Austensen (1969)

Associate Professor, Department of History
Ph.D., University of Illinois

Elfreda L. Austin (1982)

Tutor, High Potential Student Program
Instructor, Department of English
M.A., Illinois State University

Nathan J. Averick (1980)

Adjunct Professor, Department of Health Sciences
M.D., University of Illinois-Chicago

J.D. John Marshall Law School

G. Thomas Baer (1974)

Professor, Department of Curriculum and Instruction
Ed.D., Northern Illinois University

Stephen Paul Baginski (1982)

Instructor, Department of Accounting
M.S., Illinois State University; C.P.A.

Donald R. Baker (1981)

Assistant Professor, Department of Sociology, Anthropology and Social Work
M.S.W., The University of Texas at Arlington

Paul J. Baker (1965)

Professor, Department of Sociology, Anthropology and Social Work
Ph.D., Duke University

Reid Baker (1982)

Lecturer, Department of Music

Robert L. Baker (1971)

Professor, Department of Specialized Educational Development
Ed.D., Syracuse University

Margaret K. Balbach (1973)

Associate Professor, Department of Agriculture
Ph.D., University of Illinois

Brian J. Baldwin (1981)

Instructor, Department of Health, Physical Education, Recreation and Dance
M.S., University of Illinois

Linda A. Ball (1979)

Faculty Associate in Metcalf Elementary School
M.S. in Ed., Illinois State University

K. Gerald Ball (1963)

Assistant Professor, Department of English

Wilson P. Banks (1963)

Assistant Professor, Department of Mathematics
Ph.D., University of Illinois

Starletta P. Barber (1982)

Tutor, High Potential Students Program
Instructor, Department of English

M.A., Eastern Illinois University

Wendy S. Bareither (1979)

Faculty Associate in Laboratory Schools Special Education
B.S. in Ed., Illinois State University

Drucilla K. Barker (1981)

Lecturer, Department of Economics
B.A., Sonoma State University

- Jerrold E. Barnett (1980)**
Assistant Professor, Department of Psychology
Ph.D., The Pennsylvania State University
- David A. Barrett II (1980)**
Adjunct Professor, Department of Health Sciences
M.D., Marquette University
- Sarah S. Barron (1982)**
Assistant Professor, Department of English
Ph.D., The Ohio State University
- Carolyn Z. Bartlett (1979)**
Associate Director, Office of Admissions and Records
Ed.D., Illinois State University
- Vijaya L. Baru (1981)**
Lecturer, Department of Chemistry
M.Sc., Illinois State University
- Buford H. Bass (1951)**
Head Baseball Coach, and
Professor, Department of Health, Physical Education, Recreation and Dance
Ed.D., Louisiana State University
- Catherine N. Batsche (1977)**
Assistant Professor, Department of Home Economics
Ph.D., Illinois State University
- Everett E. Bauer (1970)**
Professor, Department of Specialized Educational Development
Ed.D., Illinois State University
- Michael C. Baum (1977)**
Counselor, Student Counseling Center
Assistant Professor, Department of Psychology
Ph.D., The University of Texas at Austin
- Edna F. Bazik (1978)**
Assistant Professor, Department of Mathematics
Tutor, High Potential Student Program
Ph.D., Southern Illinois University
- Barbara B. Beccue (1981)**
Associate Professor, Department of Applied Computer Science
Ph.D., University of Illinois
- Barbara A. Becker (1981)**
Instructor, Department of Mathematics
M.S., Illinois State University
- Kenneth R. Beckman (1960)**
Assistant Professor, Department of Specialized Educational Development
Adv. Cert. in Ed., University of Illinois
- Russell B. Bedford (1972)**
Professor, Department of Music
M.M., The University of Michigan
- Charlene H. Behrends (1978)**
Faculty Associate in Metcalf Elementary School
M.S. in Ed., Illinois State University
- Larry K. Bellknap (1979)**
Assistant Professor, Department of Health, Physical Education, Recreation and Dance
Re.D., Indiana University
- Claude A. Bell (1956)**
Associate Professor, Department of Industrial Technology
Ed.D., University of Missouri
- Janet S. Bell (1981)**
Counselor, Special Services for Disadvantaged Students
M.S. Ed., Illinois State University
- Ralph Bellas (1965)**
Professor, Department of English
Ph.D., The University of Kansas
- Dan Benardot (1981)**
Assistant Professor, Department of Home Economics
Ph.D., Cornell University
- Helen B. Benjamin (1946)**
Associate Professor, Department of Business Education and Administrative Services
Ph.D., The University of Iowa
- Laurie L. Bergner (1982)**
Lecturer, Department of Psychology
Ph.D., University of Colorado
- Raymond M. Bergner (1977)**
Associate Professor, Department of Psychology
Ph.D., University of Colorado
- Kenneth N. Berk (1989)**
Professor, Department of Mathematics
Ph.D., University of Minnesota
- Laura E. Berk (1969)**
Professor, Department of Psychology
Ph.D., The University of Chicago
- Loretta Lee Berry (1962)**
Coordinator, Office of Residential Life
M.S., Illinois State University
- Joan M. Besing (1981)**
Instructor, Department of Speech Pathology and Audiology
M.S., Illinois State University
- Norman C. Bettis (1974)**
Professor, Department of Curriculum and Instruction
Ph.D., Michigan State University
- Julia J. Bewsey (1960)**
Assistant Librarian
Assistant Professor of Library Science
M.A., Indiana University
- C. Eric Bickley (1953)**
Professor, Department of Theatre
M.S., The University of Wisconsin
- Martha R. Bickley (1964)**
Assistant Professor, Department of Business Education and Administrative Services
M.S., Illinois State University
- Joan E. Bielfeldt (1975)**
Instructor, Department of Accounting
M.B.A., Illinois State University
- Barbara T. Bills (1982)**
Faculty Associate in University High School
B.S. Ed., University of Illinois
- John F. Binning (1981)**
Assistant Professor, Department of Psychology
M.A., The University of Akron
- Dale E. Birkenholz (1962)**
Professor, Department of Biological Sciences
Ph.D., University of Florida
- Jane M. Birkenholz (1972)**
Professor, Department of Specialized Educational Development
Ph.D., The University of Texas
- Ferman Bishop (1960)**
Professor, Department of English
Ph.D., The University of Wisconsin
- Beverly K. Bivans (1976)**
Faculty Associate in University High School
M.S. in Ed., Southern Illinois University
- Alton J. Bjork (1968)**
Professor, Department of Curriculum and Instruction
Ed.D., Columbia University
- Marilyn F. Blank (1980)**
Faculty Associate in Metcalf Elementary School
B.S. in Ed., Emporia Kansas State College
- Roger D. Blomgren (1949)**
Professor, Department of Industrial Technology
Ed.D., University of Illinois
- Marian K. Bloom (1982)**
Lecturer, Department of Art
M.F.A., The University of Iowa
- Barbara L. Blum (1963)**
Faculty Associate in University High School
M.S., Illinois State University
- John K. Boaz (1965)**
Assistant Vice President for Administrative Services
- Associate Professor, Department of Communication**
Ph.D., Wayne State University
- Stanley J. Bobowski (1980)**
Adjunct Professor, Department of Health Sciences
M.D., University of Manitoba (Canada)
- Walter F. Bock (1966)**
Associate Professor, Department of Art
M.A., University of California at Berkeley
- Margaret M. Bogacz (1982)**
Instructor, Department of Mathematics
M.S., University of Notre Dame
- Willard Bohm (1981)**
Assistant Professor, Department of Foreign Languages
Ph.D., University of California - Berkeley
- James A. Boito (1971)**
Associate Professor, Department of Music
M.M., Northwestern University
- Charles W. Bolen (1970)**
Dean, College of Fine Arts
- Professor, Department of Music
Ph.D., Indiana University
- David Brian Boles (1982)**
Assistant Professor, Department of Psychology
Ph.D., University of Oregon
- Ann T. Bolkcom (1981)**
Instructor, Department of Communication
M.S., Illinois State University
- James W. Bommarito (1967)**
Professor, Department of Specialized Educational Development
Ed.D., Wayne State University
- David R. Boniello (1982)**
Counselor, Student Counseling Center
M.A., University of Dayton
- Jacqueline F. Bontemps (1974)**
Director, Center for Ethnic Studies
Associate Professor, Department of Art
Ed.D., Illinois State University
- Stephanie D. Booth (1982)**
Instructor, Department of History
M.S., Illinois State University
- Leon E. Boothe (1980)**
Vice President and Provost of the University
Associate Professor, Department of History
Ph.D., University of Illinois
- Paul W. Borg (1981)**
Assistant Professor, Department of Music
M.M., Arizona State University
- Harold J. Born (1961)**
Chairperson, Department of Physics
Professor, Department of Physics
Ph.D., Iowa State University
- Doreen Bowen (1982)**
Counselor, Student Counseling Center
M.A., The Ohio State University
- Mack L. Bowen (1971)**
Professor, Department of Specialized Educational Development
Ph.D., University of Illinois
- Clarence A. Bowman (1978)**
Assistant Professor, Department of Speech Pathology and Audiology
Ph.D., University of Illinois
- Mary D. Bowman (1981)**
Faculty Associate in Metcalf Elementary School
B.A., Augustana College
- Fay F. Bowren (1969)**
Professor, Department of Specialized Educational Development
Ed.D., The University of New Mexico
- Harold E. Boyd (1965)**
Professor, Department of Art
M.F.A., The University of Kansas
- John R. Boyd (1975)**
Faculty Associate in University High School
M.A., Illinois State University
- Marilyn Miller Boyd (1982)**
Coordinator, International House Programs
M.A., Illinois State University
- Mary Ann Boyd (1975)**
Faculty Associate in University High School and Metcalf Elementary School
M.A., Illinois State University
- Judith Boyer (1968)**
Associate Vice President for Student Affairs
M.A., Illinois State University
- George J. Brabb (1975)**
Professor, Department of Management and Marketing
Ph.D., University of Illinois
- Louis V. Brackett (1981)**
Instructor, Department of Health, Physical Education, Recreation and Dance
M.S., University of Utah
- Wanda R. Bradford (1982)**
Faculty Associate in Metcalf Elementary School
B.S. Ed., Illinois State University
- Robert C. Bradley (1982)**
Associate Professor, Department of Political Science
M.A., The University of Akron
- Loren L. Brandi (1982)**
Instructor, Department of Economics
M.S., University of Illinois
- Michele E. Branson (1977)**
Assistant Librarian
Instructor in Library Science

- M.S., University of Illinois
Sophronia D. Breedlove (1979)
 Counselor, Student Counseling Center
 Ed.D., Virginia State University
Alma B. Bremer (1950)
 Assistant Professor, Department of Home Economics
 M.A., University of Illinois
William I. Brevda (1980)
 Assistant Professor, Department of English
 Ph.D., The University of Connecticut
Richard K. Brewer (1978)
 Associate Professor, Department of Applied Computer Science
 Ph.D., University of Wisconsin-Madison
John L. Brickell (1978)
 Professor, Department of Educational Administration and Foundations
 Ph.D., University of Oregon
Roger D. Bridges (1974)
 Lecturer, Department of History
 Ph.D., University of Illinois
John E. Briggs (1976)
 Faculty Associate in University High School
 M.S. in Ed., Illinois State University
Benton K. Bristol (1965)
 Professor, Department of Agricultural Education, The Pennsylvania State University
Herman E. Brockman (1963)
 Distinguished Professor, Department of Biological Sciences
 Ph.D., The Florida State University
Dwight E. Brooks (1980)
 Instructor, Department of Communication
 M.A., The Ohio State University
Irene T. Brosnahan (1968)
 Associate Professor, Department of English
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- Curt M. White (1980)**
Assistant Professor, Department of Applied
Computer Science
M.A., Wayne State University
- Curtis K. White (1980)**
Assistant Professor, Department of English
Ph.D., The University of Iowa
- Marilee White (1979)**
Adjunct Instructor, Department of Sociology,
Anthropology and Social Work
M.S.W., University of Illinois
- Ray L. White (1968)**
Professor, Department of English
Ph.D., University of Arkansas
- Maureen T. Whitlock (1982)**
Instructor, Department of Speech Pathology
and Audiology
M.A., Bowling Green State University
- James V. Whitmire (1972)**
Head Tennis Coach, Intercollegiate Athletics
M.S., Illinois State University
- Peter Whitmer (1969)**
Assistant Director, Office of Development
University of Illinois, Illinois Wesleyan
University
- Sharon E. Whittaker (1979)**
Assistant Director of Residential Life for
Programming
M.Ed., Howard University
- David T. Wiant (1974)**
Director of Personnel
B.S., Western Michigan University
- Leah M. Wilcox (1972)**
Associate Professor, Department of English
Ed.D., University of Southern California
- Burton D. Wilder**
Assistant to Program Director of Military
Science
College of Applied Science and Technology
- Valerie J. Wilford (1969)**
Assistant Professor, Department of
Communication
M.S., University of Illinois
- Dan L. Wilhelm (1982)**
Assistant Professor, Department of Theatre
M.F.A., Ohio University
- Linda S. Wilkins (1977)**
Faculty Associate in Metcalf Elementary School
M.S. in Ed., Illinois State University
- Marilyn W. Wilkins (1981)**
Assistant Professor, Department of Business
Education and Administrative Services
Ed.D., University of North Dakota
- Brian J. Wilkinson (1979)**
Associate Professor, Department of Biological
Sciences
Ph.D., University of Sheffield (United Kingdom)
- Judith B. Wilkinson (1982)**
Associate Professor, Department of
Management and Marketing
Ph.D., University of Alabama
- Christie A. Williams (1980)**
Business-Major Advisor, Department of
Finance and Law
B.S., Illinois State University
- David B. Williams (1976)**
Professor, Department of Music
Ph.D., The University of Washington
- Macon L. Williams (1968)**
Chairperson, Department of Psychology
Associate Professor, Department of Psychology
Ph.D., The Ohio State University
- Wenmouth Williams, Jr. (1974)**
Associate Professor, Department of
Communication
Ph.D., The Florida State University
- Barbara A. Wilmot (1974)**
Assistant Professor, Department of Mathematics
M.S., Illinois State University
- Beverly D. Wilson (1963)**
Professor, Department of Health, Physical
Education, Recreation and Dance
Ph.D., The Ohio State University
- Deborah A. Wilson (1981)**
Assistant Women's Cross Country Track and
Field Coach, Intercollegiate Athletics
B.S., Illinois State University
- Eligie Wilson III (1982)**
Lecturer, Department of Communication
B.S., Ball State University
- Thomas D. Wilson (1961)**
Associate Professor, Department of Political
Science
Ph.D., University of Illinois
- Michael W. Winchell (1974)**
Associate Professor, Department of Business
Education and Administrative Services
Ed.D., Illinois State University
- Kaye S. Winder (1980)**
Assistant Professor, Department of Art
Ph.D., The University of Iowa
- Thomas L. Wingler (1977)**
Instructor, Department of Economics
M.S., Illinois State University
- Irene E. Winter (1981)**
Faculty Associate in Laboratory School Special
Education
B.S.Ed., Illinois State University
- John R. Winter (1981)**
Assistant Professor, Department of Agriculture
M.S., Oregon State University
- Forrest G. Wisely (1973)**
Assistant Professor, Department of
Communication
Ed.D., University of Southern California
- Mary P. Withrow (1975)**
Faculty Associate in University High School
M.A., Illinois State University
- John A. Woerly (1982)**
Lecturer, Department of Health Sciences
B.S., Illinois State University
- Carole E. Wood (1980)**
Faculty Associate in Laboratory Schools Special
Education
Faculty Assistant in Speech Pathology and
Audiology
M.Sc., University of London
- Veronica A. Woodhouse (1982)**
Faculty Assistant, Department of Chemistry
B.A., Illinois State University
- Harvey S. Woods (1957)**
Professor, Department of Agriculture
Ph.D., University of Illinois
- William C. Woodson (1968)**
Professor, Department of English
Ph.D., University of Pennsylvania
- Frank C. Woolley (1980)**
Assistant Professor, Department of Sociology,
Anthropology and Social Work
Certificate in Advanced Social Welfare,
Columbia University of Social Work
- Donna Jo Workman (1959)**
Professor, Department of Health, Physical
Education, Recreation and Dance
Ph.D., The University of Iowa
- Lawrence F. Worley (1982)**
Assistant Professor, Department of Economics
M.A., Illinois State University
- Harold J. Wray (1973)**
Associate Professor, Department of History
Ph.D., University of Hawaii
- Ralph D. Wray (1970)**
Professor, Department of Business Education
and Administrative Services
Ed.D., Indiana University
- David W. Wright (1969)**
Professor, Department of Communication
Ph.D., Wayne State University
- Marjorie A. Wright (1979)**
Head Women's Softball Coach, Intercollegiate
Athletics
B.S. in Ed., Illinois State University
- Mary Elaine Wszalek (1978)**
Area Coordinator, Office of Residential Life
M.Ed., Trenton State College
- Walker D. Wyman, Jr. (1971)**
Associate Professor, Department of History
Ph.D., The University of Washington
- Michael L. Wyzan (1982)**
Assistant Professor, Department of
Economics
Ph.D., The University of North Carolina at
Chapel Hill
- Ronald J. Yates (1982)**
Assistant Professor, Department of Educational
Administration and Foundations
Ed.D., Illinois State University
- David A. Yos (1982)**
Assistant Librarian
Associate Professor of Library Science
Ph.D., The University of Iowa
- Henry E. Young (1980)**
Adjunct Lecturer, Department of Health
Sciences
B.S., Illinois State University
- Martin A. Young (1968)**
Chairperson, Department of Speech Pathology
and Audiology
Professor, Department of Speech Pathology
and Audiology
Ph.D., The University of Iowa
- Robert D. Young (1967)**
Professor, Department of Physics
Ph.D., Purdue University
- W. Perry Young (1962)**
Assistant Professor, Department of Industrial
Technology (University High School)
M.A., Western Kentucky State College
- Richard C. Youngs (1964)**
Professor, Department of Curriculum and
Instruction
Ph.D., Michigan State University
- Patricia E. Zamrell (1981)**
Instructor, Department of Accounting
M.S., Illinois State University; C.P.A.
- Harvey G. Zeldenstein (1965)**
Professor, Department of Political Science

Ph.D., New York University
William D. Zeller (1963)
 Professor, Department of Curriculum and Instruction
 Ph.D., Michigan State University
Mary Zey-Ferrell (1972)
 Professor, Department of Sociology, Anthropology and Social Work
 Ph.D., Louisiana State University

Barbara Z. Ziegler (1979)
 Assistant Director of Financial Aid
 Illinois Wesleyan University and Illinois State University
Sandra K. Zielinski (1979)
 Faculty Associate in University High School
 M.F.A., Illinois State University
Wayne H. Zook (1968)
 Professor, Department of Industrial Technology

Ph.D., Iowa State University
Clark E. Zumbach (1980)
 Assistant Professor, Department of Philosophy
 Ph.D., Rutgers University
James K. Zumwalt (1982)
 Associate Professor, Department of Finance and Law
 Ph.D., University of Missouri

Faculty Emeriti

Francis M. Alexander (1945)
 Assistant Professor of the Teaching of History (Emerita)

A.M., University of Illinois
Mabel C. Allen (1929)
 Assistant Professor of Speech (Emerita)

M.A., Northwestern University
 Deceased, September, 1982

Eric Baber (1965)
 Director of Research Services and Grants
 Professor of Education (Emeritus)
 Ed.D., Michigan State University

G. Bradford Barber (1944)
 Professor of Speech (Emeritus)
 Ph.D., The Ohio State University

George Barford (1947)
 Professor of Art (Emeritus)
 M.A., Columbia University

Gladys L. Bartle (1930)
 Associate Professor of Art (Emerita)
 Ph.D., The University of Wisconsin

Ralph A. Bellas (1965)
 Professor of English (Emeritus)
 Ph.D., The University of Kansas

Francis B. Belsha (1948)
 Vice President for Business and Finance,
 Professor of Education (Emeritus)
 Department of Curriculum and Instruction
 Ph.D., Yale University

Minnie P. Berson (1970)
 Professor of Elementary Education (Emerita)
 Ed.D., Wayne State University

Douglas R. Bey (1944)
 Professor of Mathematics (Emeritus)
 Ph.D., University of Illinois

Allie Ward Billingsley (1949)
 Professor of Spanish (Emerita)
 Ph.D., University of Illinois

E. Scott Blankenship (1956)
 Professor of Education (Emeritus)
 Ph.D., The Ohio State University

Robert G. Bone (1956)
 President, Professor of History (Emeritus)
 Ph.D., University of Illinois

Margaret K. Bradford (1951)
 Assistant Professor of Home Economics (Emerita)

M.S., Colorado State College

Paul J. Brand (1958)
 Professor of Geography (Emeritus)
 Ed.D., Columbia University

Francis R. Brown (1949)
 Director of Credit Programs in the College of Continuing Education and Public Service,
 Assistant Director of Summer Sessions

Professor of Mathematics (Emeritus)
 Ed.D., University of Illinois

R. Elizabeth Brown (1955)
 Professor of Psychology (Emerita)
 Ph.D., Northwestern University

Walter H. Brown (1955)
 Professor of Botany (Emeritus)
 Ph.D., University of Illinois

Leonard A. Brubaker (1964)
 Associate Professor, (Emeritus) Department of Curriculum and Instruction

Ph.D., The Ohio State University

Elsie L. Bryan (1960)
 Faculty Associate in the Metcalf Elementary School (Emerita)

M.S., Illinois State University

Cecilia P. Bunney (1945)
 Director of Museums and Professor (Emerita)

Ph.D., The State University of Iowa
Weasley C. Calef (1970)
 Professor, (Emerita), Department of Geography-Geology

Ph.D., The University of Chicago
John R. Carlock (1951)
 Associate Professor of Education (University High School) (Emeritus)

M.S. in Ed., Illinois State University
Helen M. Cavanagh (1946)
 Distinguished Professor of History (Emerita)

Ph.D., The University of Chicago
Helen Chiles (1948)

Assistant Professor of Latin (Emerita)
 A.M., University of Illinois

Dorothy W. Clark (1964)
 Assistant Professor of Speech Pathology and Audiology (Emerita)

A.M., The University of Michigan
Herbert E. Clark (1966)
 Associate Professor of Psychology (Emeritus)

Ph.D., Purdue University
Ruth L. Cole (1944)
 Assistant Professor and Supervising Teacher in Metcalf (Emerita)

M.A., Northwestern University
Arnold C. Condon (1964)
 Professor of Business Education (Emeritus)

Ph.D., New York University
Ronald L. Cook (1962)
 Associate Professor of Chemistry (Emeritus)

M.S. in Ed., Western Illinois University
Margaret Cooper (1932)
 Professor of Education (Emerita)

Ed.D., Teachers College, Columbia University

Dorothy D. Cox (1957)

Assistant Professor of Elementary Education (Metcalf Elementary School) (Emerita)

M.A., George Peabody College for Teachers
Robert L. Cramer (1958)
 Assistant Professor of Elementary Education (Emeritus)

M.S. in Ed., Illinois State University
Mabel Percie Crompton (1924)

Assistant Professor of Geography (Emerita)
 S.M., The University of Chicago

Lucile Z. Crosby (1940)

Assistant Librarian and Assistant Professor of Library Science (Emerita)

M.S. in L.S., Library School, University of Illinois

Frances L. Dunn (1948)

Assistant Professor and Supervising Teacher in Metcalf (Emerita)

M.S. in Ed., The University of Wisconsin

Lillian S. Davies (1963)

Associate Professor of Elementary Education (Emerita)

Ph.D., University of Minnesota

Alta J. Day (1928)

Assistant Professor of Business Education (Emerita)

M.A., Teachers College, Columbia University
 Deceased, March, 1982

William I. DeWees (1937)

Professor of Education (Emeritus)
 Ed.D., The Pennsylvania State University

Clarence M. Dillinger (1944)

Special Assistant to the Dean of the Faculty, Professor of Psychology (Emeritus)

Ph.D., University of Missouri

Deceased, November, 1982

Leven M. Dowdall (1957)

Assistant Professor of Industrial Technology (Emeritus)

M.S. in Ed., Illinois State University

Pauline S. Drawver (1956)

Associate Professor of English (Emerita)
 Ph.D., University of Illinois

Leo E. Eastman (1954)

Associate Secretary of the University, Professor of Education (Emeritus)
 Department of Curriculum and Instruction
 Ed.D., The University of North Dakota

Alice L. Ebel (1934)

Professor of Political Science (Emerita)

Ph.D., University of Illinois

Dorothy Eckelmann (1945)

Professor of Speech Pathology and Audiology (Emerita)

Ph.D., The University of Iowa

Elwood F. Egelston (1962)

Professor of Educational Administration (Emeritus)

Ed.D., University of Oregon

Alice M. Eikenberry (1945)

Professor of the Teaching of History in University High School (Emerita)

Ed.D., Teachers College, Columbia University

Ralph A. Elliott (1963)

Medical Director of the University Health Service, Professor (Emeritus)

M.D., Northwestern University Medical School

Margery Ellis (1927)

Assistant Professor of French (Emerita)

A.M., The University of Chicago

Preston Ensign (1943)

Coordinator of Campus Planning (Emeritus)

B.Ed., Illinois State University

Nickolas J. Ernest (1969)

Associate Professor, (Emeritus), Department of Art

M.A.T., Indiana University

Raymond W. Esworthy (1949)

Professor of Accounting (Emeritus)

Ph.D., University of Illinois

G. Harlowe Evans (1946)

Professor of Chemistry (Emeritus)

Ph.D., The University of Michigan

Dorothy S. Fagerburg (1957)

Assistant Professor of Library Science (Emerita)

M.A., Occidental College

I. Louise Farmer (1951)

Assistant Professor of Elementary Education-Metcalf (Emerita)

Department of Curriculum and Instruction

M.S. in Ed., University of Illinois

Deceased, January, 1983

Dorothy E. Fenckholt (1951)

Professor of Botany (Emerita)

Ph.D., Northwestern University

Eugene D. Fitzpatrick (1965)

Professor of Psychology (Emeritus)

Ed.D., University of Northern Colorado

George W. Forsey, Jr. (1967)

Professor, (Emeritus), Department of Agriculture

Chairperson, Department of Agriculture

Ph.D., Illinois State University

Bernice G. Frey (1930)

Professor of Health and Physical Education for Women (Emerita)

Ph.D., The University of Iowa

Leo H. Frigo (1966)

Staff Physician in the University Health Service (Emeritus)

M.D., Chicago Medical School

Harold E. Frye (1931)

Assistant Professor of Health and Physical Education for Men (Emeritus)

M.A., New York University

Beryl T. Galaway (1948)

Assistant Librarian, Assistant Professor of Library Science (Emerita)

- A.M.L.S., The University of Michigan
Harold E. Gibson (1950)
 Director of the Bureau of Appointments
 Professor of Education (Emeritus)
 Ed.D., University of Missouri
- Arley F. Gillett (1944)**
 Director of Athletics, Professor of Health,
 Physical Education and Recreation (Emeritus)
 P.E.D., Indiana University
- Victor E. Gimmestad (1948)**
 Professor of English (Emeritus)
 Ph.D., The University of Wisconsin
 Deceased, December, 1982
- F. Russell Glasener (1935)**
 Professor of Economics (Emeritus)
 Ph.D., The University of Iowa
- Miriam Gray (1946)**
 Professor of Health and Physical Education for
 Women (Emerita)
 Ed.D., Teachers College, Columbia University
- Nina E. Gray (1935)**
 Professor of Biological Sciences (Emerita)
 Ph.D., The University of Wisconsin
- John W. Green (1939)**
 Assistant Professor of Agriculture (Emeritus)
 M.S., University of Illinois
- Clara L. Guthrie (1932)**
 Assistant Librarian, Assistant Professor of
 Library Science (Emerita)
 M.S. in L.S., Library School, University of
 Illinois
- Perry Hackett (1949)**
 Assistant Professor of Music (Emeritus)
 M.M., Northwestern University
- Helen J. Hadden (1976)**
 Professor, (Emerita), Department of Specialized
 Educational Development
 Ed.D., University of Northern Colorado
- Barbara C. Hall (1957)**
 Professor of Health, Physical Education and
 Recreation (Emerita)
 Ed.D., Columbia University
- Doris M. Hardine (1947)**
 Assistant Professor of Music (Emerita)
 M.M., Eastman School of Music
- V. Carolyn Harper (1968)**
 Assistant Professor of Information Sciences
 (Emerita)
 Adv. M.L.S., The Florida State University
- Alice O'B. Harris (1952)**
 Assistant Professor and Supervising Teacher
 Primary Educable Mentally Handicapped in
 Metcalf (Emerita)
 M.S. in Ed., University of Illinois
- Archibald J. Harris (1957)**
 Head Swimming Coach
 Assistant Professor of Physical Education
 (Emeritus)
 M.A., The University of Iowa
- Carl D. Heldt (1948)**
 Assistant Varsity Track Coach, Assistant
 Professor of Health and Physical Education
 for Men (Emeritus)
 M.P.E., Purdue University
- Arlan C. Helgeson (1951)**
 Professor, (Emeritus), Department of History
 Ph.D., The University of Wisconsin
- Candace A. Helgeson (1958)**
 Assistant Professor, (Emerita), Department of
 English
 M.A., University of Illinois
- Ruth Henline (1926)**
 Professor of English (Emerita)
 Ph.D., Northwestern University
 Deceased, June, 1982
- Charles R. Hicklin (1960)**
 Professor, (Emeritus), Department of
 Curriculum and Instruction
 Ed.D., University of Illinois
- Grace Hiler (1951)**
 Assistant Professor of the Teaching of English
 (Emerita)
 M.A., The University of Iowa
- Harriet Wheeler Hoffman (1946)**
 Assistant Professor of Business Education
 (Emerita)
 M.A., The University of Iowa
- Bernice Holliday (1957)**
 Assistant Manager and Executive Assistant in
 Housing (Emerita)
- B.Ed., Western Illinois University
Frank J. Holmes (1962)
 Professor of Psychology (Emeritus)
 Ph.D., New York University
- Joseph C. Honan (1968)**
 Associate Professor, (Emeritus),
 Department of Political Science
 Ph.D., University of Missouri
- F. Louis Hoover (1944)**
 Director of Museums, Distinguished Professor
 of Art (Emeritus)
 Ed.D., New York University
- Verna A. Hoyman (1946)**
 Assistant Professor of English (Emerita)
 M.A. in Ed., Northwestern University
- Benjamin C. Hubbard (1961)**
 University Professor (Emeritus)
 Dean, College of Education
 Department of Educational Administration and
 Foundations
 Ed.D., University of Alabama
- Elizabeth A. Hughes (1954)**
 Assistant Professor of Special Education
 (Emerita)
 M.Ed., Wayne State University
- Lucile Hyenman (1958)**
 Assistant Professor of English (Emerita)
 A.M., Columbia University
- Irving Jacks (1968)**
 Professor of Psychology (Emeritus)
 Ph.D., New York University
- Harry O. Jackson (1955)**
 Assistant Professor of Biological Sciences
 (Emeritus)
 M.S. in Ed., Illinois State University
- Alvin R. Jacobson (1970)**
 Director of Environmental Health, Professor of
 Environmental Health (Emeritus)
 Ph.D., The University of Iowa
- Kenneth E. James (1962)**
 Professor of Agricultural Education (Emeritus)
 Ed.D., University of Missouri
- Marie Jessa (1946)**
 Assistant Professor of Business Education
 (Emerita)
 M.A., The University of Iowa
- Milford C. Jochums (1948)**
 Professor of English (Emeritus)
 Ph.D., University of Illinois
- Blossom Johnson (1945)**
 Acting Chairman of the Department of Home
 Economics, Professor of Home Economics
 (Emerita)
 Ed.D., University of Missouri
- Eric H. Johnson (1958)**
 Vice President, Professor of Educational
 Administration (Emeritus)
 Ed.D., University of Illinois
- Anita F. Jones (1962)**
 Assistant Professor of Education - Metcalf
 (Emerita)
 (Department of Curriculum and Instruction)
 M.S. in Ed., Illinois State University
- Margaret Jorgenson (1949)**
 Assistant Professor of Psychology (Emerita)
 M.A., University of Denver
- Bruce T. Kaiser (1956)**
 Director of University Union and Auditorium
 (Emeritus)
 B.S., Indiana University
- Jacqueline Q. Karch (1957)**
 Professor of Home Economics (Emerita)
 Ed.D., Washington University
- Ila Karr (1952)**
 Assistant Librarian, Assistant Professor of
 Library Science (Emerita)
 M.A., University of Denver Library School
- Anna L. Keaton (1937)**
 Dean of Women, Professor of English (Emerita)
 Ph.D., The University of Chicago
- Benjamin J. Keeley (1952)**
 Professor of Sociology (Emeritus)
 Ph.D., The University of Nebraska
- Ellen D. Kelly (1957)**
 Professor of Health and Physical Education for
 Women (Emerita)
 Ph.D., The University of Iowa
- John A. Kinneman (1927)**
 Professor of Sociology (Emeritus)
 Ph.D., Northwestern University
- Homer T. Knight (1957)**
 Professor of Education (Emeritus)
 Ed.D., Teachers College, Columbia University
- Harold F. Koepke (1934)**
 Professor of Management (Emeritus)
 Ph.D., The University of Iowa
- Joe W. Kraus (1966)**
 Professor of Library Science (Emeritus), Director
 of Libraries
 Ph.D., University of Illinois
- Brigitta J. Kuhn (1961)**
 Professor of French (Emerita)
 Ph.D., Sorbonne, University of Paris
- Lowell J. Kunz (1949)**
 Assistant Professor of Music (Metcalf
 Elementary School) (Emeritus)
 M.S. in Ed., Illinois State University
- Norene K. Kurth (1953)**
 Assistant Professor of Business Education and
 Administrative Services (Emerita)
 M.B.A., The University of Chicago
- Ernest M. R. Lamkey (1927)**
 Professor of Biological Sciences (Emeritus)
 Ph.D., University of Illinois
- Arthur H. Larsen (1935)**
 Distinguished Professor of Higher Education,
 Consultant for Institutional Studies (Emeritus)
 Ph.D., The University of Wisconsin at Madison
- Margaret Lawrence (1939)**
 Assistant Librarian, Assistant Professor of
 Library Science (Emerita)
 M.A., The University of Nebraska
- Elden A. Lichy (1945)**
 Professor of Education (Emeritus)
 Ed.D., University of Missouri
- Lois Lilly (1957)**
 Assistant Professor of Elementary Education
 (Emerita)
 Adv. Cert. in Ed., University of Illinois
- Harry D. Lovelass (1946)**
 Professor of Education (Emeritus)
 Ed.D., University of Illinois
- Hattie C. Lundgren (1955)**
 Assistant Professor of Home Economics
 (Emerita)
 M.S., Iowa State College
- Darryl T. Manring (1962)**
 Associate Professor (Emeritus),
 Department of Music
 M.M., The University of Michigan
- Faye E. Mansfield (1941)**
 Assistant Professor and Supervising Teacher in
 Metcalf (Emerita)
 M.A., Teachers College, Columbia University
- Helen E. Marshall (1935)**
 Professor of History (Emerita)
 Ph.D., Duke University
- J. Louis Martens (1947)**
 Professor of Botany (Emeritus)
 Ph.D., Indiana University
- Thomas B. Martin (1962)**
 Acting Chairperson of the Department of
 Finance and Law, Professor of Business
 Education and Administrative Services
 (Emeritus)
 Ed. D., Indiana University
- Stanley S. Marzof (1937)**
 Distinguished Professor of Psychology
 (Emeritus)
 Ph.D., The Ohio State University
- Willard J. McCarthy (1955)**
 Associate Professor of Industrial Technology
 (Emeritus)
 Ed.M., University of Illinois
- Clyde T. McCormick (1944)**
 Head of the Department of Mathematics,
 Professor of Mathematics (Emeritus)
 Ph.D., Indiana University
- George F. McCoy (1962)**
 School Psychologist in the Metcalf Elementary
 School
 Professor of Psychology (Emeritus)
 Ph.D., University of Illinois
- Neva McDavitt (1929)**
 Assistant Professor of Geography (Emerita)
 A.M., Clark University
- Dorothy M. McEvoy (1950)**
 Assistant Professor and Supervising Teacher
 (Emerita)
 M.A., Teachers College, Columbia University

- Robert L. Metcalf (1961)**
Director, University High School Athletics,
Professor, (Emeritus), Department of Health,
Physical Education, Recreation and Dance
P.E.D., Indiana University
- Loren W. Montz (1957)**
Professor of Botany (Emeritus)
Ph.D., The University of Nebraska
- Winifred S. Metzler (1947)**
Assistant Professor and Assistant Librarian in
University High School (Emerita)
A.M., The University of Chicago
- Odessa H. Meyer (1965)**
Assistant Professor of Elementary Education
(Emerita)
Spec. in Ed., Illinois State University
- Marion G. Miller (1937)**
Professor of Art (Emerita)
Ph.D., The Ohio State University
- Murry Lincoln Miller (1950)**
Associate Professor of Education (Emeritus)
Ph.D., University of Pittsburgh
- S. Duncan Miller (1964)**
Assistant Professor of Music (University High
School) (Emeritus)
M.M., Eastman School of Music
- Robert V. Mitchell (1968)**
Dean of the College of Business
Professor of Business Administration
(Emeritus)
Ph.D., University of Illinois
- Orrin J. Mizer (1947)**
Associate Professor, (Emeritus), Department of
Biological Sciences
Ph.D., The University of Iowa
- Robert H. Moore (1952)**
Acting Dean of the College of Education,
Professor of Education (Emeritus)
Ph.D., The Ohio State University
- Mark R. Moran (1966)**
Associate Professor of Social Work (Emeritus)
Ph.D., The Ohio State University
- Adrian Baucum Myers (1957)**
Assistant Professor of Mathematics (University
High School) (Emerita)
M.A., University of Kentucky
- Helen M. Nance (1954)**
Professor of Elementary Education (Emerita)
Ph.D., The Ohio State University
- Edwin E. Niemi (1958)**
Professor, (Emeritus), Department of Art
M.S., The University of Wisconsin
- Burton L. O'Connor (1937)**
Professor of Health and Physical Education for
Men (Emeritus)
Ed.D., The Pennsylvania State University
- Alice R. Ogle (1932)**
Assistant Professor and Supervising Teacher of
Art (Emerita)
M.A., Teachers College, Columbia University
- Mary M. Packwood (1961)**
Associate Professor of Art (Emerita)
Ed.M., University of Missouri
- Kelvin M. Parker (1967)**
Professor of Spanish (Emeritus)
Ph.D., The University of Chicago
- Louise Parker (1950)**
Assistant Professor of Allied Health Professions
(Laboratory Schools) (Emerita)
M.P.M., The University of Michigan
- Margaret S. Parret (1946)**
Associate Professor of Information Sciences
(Emerita)
M.A., Teachers College, Columbia University
- Henri R. Pearcey (1940)**
Associate Professor of European History
(Emeritus)
Ph.D., The University of Chicago
- Harlan W. Peithman (1937)**
Professor of Music (Emeritus)
Ed.D., Teachers College, Columbia University
- Ralph M. Perry (1967)**
Associate Professor of French (Emeritus)
Ph.D., University of Illinois
- Margaret K. Peters (1930)**
Professor of Business Education (Emerita)
Ed.D., University of Colorado
- Harold R. Phelps (1958)**
Professor of Special Education (Emeritus)
Ph.D., The Ohio State University
- L. Louessa M. Pilch (1962)**
Assistant Professor of English- University High
School (Emerita)
M.A., University of Illinois
- W. Douglas Poe (1958)**
Professor of Economics (Emeritus)
Ph.D., Indiana University
- Genevieve Anna Pohle (1923)**
Assistant Professor and Assistant Librarian
(Emerita)
M.A., Graduate Library School, The University
of Michigan
- Charles B. Porter (1961)**
Associate Director of Institutional Research and
Computer Operations
Professor of Industrial Technology (Emeritus)
Ed.D., University of Illinois
- H. Earle Reese (1958)**
Professor of Insurance (Emeritus)
Ed.D., George Peabody College for Teachers
- Vernon L. Replegio (1950)**
Director of the Metcalf Elementary School,
Professor of Elementary Education
(Emeritus)
Ed.D., University of Illinois
- E. Ione Rhymier (1954)**
Professor of Bacteriology (Emerita)
Ph.D., University of Illinois
- Mary A. Richmond (1962)**
Assistant Professor of Library Science and
Assistant Librarian (Metcalf Elementary
School) (Emerita)
M.S. in L.S., University of Illinois
- R. Omar Rilett (1958)**
University Professor of Biological Sciences
(Emeritus)
Ph.D., The University of Wisconsin
- William J. Robinson (1970)**
Head Basketball Coach, Executive Assistant
(Emeritus)
M.A., The University of Michigan
- James L. Roderick (1956)**
Professor, (Emeritus), Department of Music
Ed.D., University of Illinois
- José A. Rodriguez (1961)**
Professor of Spanish (Emeritus)
Ph.D., Universidad de la Habana (Cuba)
- Josephine Ross (1926)**
Assistant Professor of Home Economics
(Emerita)
M.A., Teachers College, Columbia University
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- Nelson Smith (1946)**
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M.S. in Ed., Illinois State University
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Ph.D., New York University
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Index

- Abbreviations Used in the Catalog, 42
 Academic Advisement, 30
 Academic Good Standing, 26
 Academic Honors, 26
 Academic Policies and Procedures, 23, 24
 Academic Probation, 26
 Academic Requirements, 25
 Academic Senate and Committees, 8
 Accounting Programs and Courses, 134, 135
 Accreditation, 8
 ACT Score Requirements, Admission, 9
 Acting-Directing Sequence, 170
 Activity Fee, General, 13
 Administrative Officers, University, 7
 Admission Policies, 9
 Admissions and Records, Office, 9
 Advanced Placement Program, 29
 Advanced Registration, 25
 Affirmative Action, 1, 20
 Afro-American Arts, 43
 Afro-American Studies, 43
 Agribusiness Program, 47
 Agriculture Programs and Courses, 47, 48
 Agriculture Science Sequence, 47
 Alumni Services and Development, 33
 Anthropology Programs and Courses, 126, 128
 Application, Admission, 9
 Application, Graduation, 27
 Applied Computer Science Programs and Courses, 51, 52
 Applied Geography Sequence, 107
 Applied Science and Technology, College, 47
 Art Programs and Courses, 161
 Arts and Sciences, College, 83
 Arts and Sciences Degree Programs, 83
 Athletic and Service Fee, 13
 Athletic Coaching Sequence, 57
 Athletic Training Sequence, 57, 58
 Audit Tuition, Auditors, 13, 23
 Bachelor Degrees, Definitions, 26
 Basic Educational Opportunity Grants (BEOG), 16
 Beginning Freshman Student, Definition, 9
 Bilingual/Bicultural Education, 142
 Biological Sciences Programs and Courses, 84
 Biological Sciences Sequence, 84
 Black Awareness Committees, 21
 Black Student Union, 20
 Board of Regents, 7
 Bone Scholars, 26
 Bone Student Center, 20
 Book Exchange, 20
 Braden Auditorium, 20
 Business Administration Programs, 139
 Business, College, 133
 Business Education and Administrative Services Programs and Courses, 136
 Business Information Systems Sequence, 137
 Calendar, University, 4
 Campus Description, 7
 Career Counseling, 18
 Catalog Requirements, 27
 Catalog Use, 2, 42
 Change of Major, 25
 Chemistry Programs and Courses, 87
 Child Development and Family Relationships Sequence, 70
 Choral Music Sequences, 166
 Class Attendance, 25
 Class Standing, 25
 Classics Courses, 103
 Classifications, Student, 9
 CLEP Examinations, 28
 Clubs, 20
 Collegiate Organization, 7
 Commencement, 27
 Commercial Applications Programming Sequence, 52
 Committees, Academic Senate, 8
 Communication Programs and Courses, 89
 Community and Public Health Sequence, 65
 Community College Transfer Students Admissions, 10
 Comprehensive Major, Description, 41
 Concentration, Description, 41
 Confidentiality of Student Records, 2, 16
 Constitution Examination, 27
 Consumer Affairs, 20
 Consumer Education Program, 133
 Consumer Services Sequence, 71
 Continuing Education and Public Service, College, 7
 Contract Major and Minor Program, 37, 43
 Cooperative Education, 33
 Costs, 13
 Course Changes, 25
 Course Descriptions, 42
 Course Grades, Definitions, 23
 Course Levels, 42
 Course Load Policy, 25
 Counseling Center, 19
 Counseling, Foreign Student, 31
 Counseling, HPS, 30
 Credit/No Credit Courses and Option, 23
 Criminal Justice Sciences Programs and Courses, 54
 Curriculum and Instruction Programs and Courses, 145, 147
 Dance Programs and Courses, 56, 62
 Deaf and Hard of Hearing Sequence, 150
 Dean's List, 26
 Degree and Program Index, 41
 Degree Requirements, Undergraduate, 26
 Degrees with Distinction, 26
 Dentistry, Preparation, 34
 Departmental Honors Programs, 52, 54, 56, 84, 90, 95, 110, 114, 121, 124
 Development Office, 33
 Directory of Classes, 25
 Disadvantaged Students, Admission, 10, 30
 Dismissal from Major, 25
 Distributive Education Sequence, 137
 Double Majors or Minors, 37
 Dropping Classes, 24
 Early Admit Program, 10
 Early Childhood Education Programs, 145
 Economics Programs and Courses, 95
 Education, College, 145
 Educational Administration and Foundations Courses, 150
 Elementary Education Program, 146
 Elementary Physical Education Sequence, 57
 Employment, Student, 18
 Engineering, Preparation, 35
 English Programs and Courses, 97

- Entertainment Programming Organizations, 21
Environmental Health Programs, 65
Equal Opportunity, 1
Ethnic and Cultural Studies Minor, 43
Extension or Correspondence Work, 27
- Faculty, 43, 175
Faculty, Emeriti, 194
Fashion Merchandising Sequence, 70
Federal Grants and Benefits, 16
Fees, 13
Fields of Study, 25, 41
Finance and Law Programs and Courses, 139
Financial Aid, 15, 19
Fine Arts, College, 161
Foods-Nutrition or Dietetics Sequence, 71
Foreign Languages Programs and Courses, 101
Foreign Student Advising, 31
Foundation, ISU, 33
Fraternities, 21
French Programs and Courses, 102, 104
Freshman Tests, Admissions, 9
Full-time Student Costs, 13
- General Assembly Scholarships, 17
General Business Education Sequence, 137
General Finance Sequence, 139
General Home Economics Sequence, 70
General Interest Groups, 21
General Music Sequence, 166
General Student, 37
Geography Programs and Courses, 107
Geology Programs and Courses, 107, 109
German Programs and Courses, 102, 104
G.I. Bill, 16
Grade Point Average, 25, 27
Grading System, University, 23
Graduate and Professional Study, Preparation, 34
Graduate School, 34
Graduation Application, 27
Graduation Fee, 13
Graduation Requirements, 27
Greek Courses, 101
Guaranteed Student Loan Program, 18
- Handicapped Regulations and Services, 1, 33
Health Education Programs, 65
Health, Physical Education, Recreation and Dance Programs and Courses, 55
Health Professions, Preparation, 34
Health Sciences Programs and Courses, 65
Health Service Fee, Service, 13
High Potential Students Program, 30
High School Preparation, 9
High School Rank, Admission, 9
History Programs and Courses, 110
Home Economics Programs and Courses, 70
Honorary Societies, 21
Honors at Commencement, 26
Honors Program, 30
Horticulture Sequence, 47
Housing and Environmental Design Sequence, 71
Housing Policies, On-campus and Off-campus, 14
Human Biology Sequence, 84
Human Geography Sequence, 107
- Illinois State Scholarship Commission Monetary Award Program (ISSC), 17
Illinois Veterans Scholarships, 17
Incompletes, 23, 27
Individualized Opportunities, Honors, 30
Industrial Education Program, 75
Industrial Hygiene Sequence, 65
Industrial Technology Programs and Courses, 74
Instructional Media Program, 89
Instrumental Music Sequences, 166
Insurance, Health and Accident, 13
Insurance Sequence, 139
Interdisciplinary Studies Courses, 45
- International House, 31
International Studies, 31, 37
Italian Courses, 105
- Journalism Education Program, 90
Junior High/Middle School Education Program, 146
- Keyboard Instrument Performance Sequence, 166
- Late Payment, Late Registration Fee, 13
Latin American Studies Program, 83
Latin Courses, 103
Law, Preparation, 35
Learning and Behaviorally Disordered Sequence, 150
Legal Aid Program, Student Association, 20
Legal Studies Program and Courses, 121, 124
Library Science Program, 89
Library, University, 7
Loan Programs, 17
Location, Geographic, 7
Lower Division Honors, 30
- Major Field(s) of Study, 25, 41
Management and Marketing Programs and Courses, 140
Management Information Systems Sequence, 141
Mass Communication Programs, 90
Mathematics Assistance Center, 32
Mathematics Programs and Courses, 113
Media Services, 32
Medical Record Administration Program, 66
Medical Technology Program, 66
Medical Requirements, 11
Medicine, Preparation, 34
Mentally Handicapped, Educable, Sequence, 151
Mentally Handicapped, Trainable, Sequence, 151
Military Science Program and Courses, 80
Minor Field(s) of Study, 25, 41
Music Education Programs, 165
Music History, Literature Sequence, 166
Music Programs and Courses, 165, 167
Music Theory, Composition Sequence, 166
Music Therapy Program, 166
- National Direct Student Loan (NDSL) Program, 18
National Student Exchange, 31
Non-resident Definition and Cost, 13
- Occupational Safety Sequence, 76
Office Administration Programs, 137
Operations Management Sequence, 141
Organizational Management Sequence, 141
Orientation Days, Preview ISU, 10
Overseas Study Centers, 31
- Parents Association, 33
Part-time Student Costs, 13
Pass/Fail (See Credit/No Credit Option), 23
Payment of Tuition and Fees, 14
Philosophy Programs and Courses, 118
Physical Education Programs and Courses, 56, 58
Physical Geography Sequence, 107
Physically Handicapped Sequence, 151
Physics Programs and Courses, 119
Placement Examinations, 11, 28
Placement Service, 19
Political Interest Organizations, 21
Political Science Programs and Courses, 121
Printing Services, Student Association, 20
Private Scholarships, 17
Production Agriculture Sequence, 47
Professional Practice, 33
Proficiency Examination Program, Departmental, 28
Psychology Programs and Courses, 124
- Quantitative Economics Concentration, 95
- Reading Education Program, 151
Reading Study Skills Service, 32
Readmission, Former Students, 10

- Recreation and Park Administration Programs and Courses, 58, 64
Recreation Program Supervision Sequence, 58
Recreation Resources Management Sequence, 58
Recreational Facilities Fee, 13
Refund Policies, 14
Regent's Tuition Waivers, 17
Repetition of Courses, 24
Registered Nurses Admissions, 10
Registration, 24
Religious Observance, 25
Religious Organizations, 22
Research Services and Grants, 32
Residence Hall Organizations, 20
Residence Halls, Association, 20
Residence Halls, Policies, 15
Residence Requirements for Graduation, 27
Residential Life, 19
Residents, Definition, and Cost, 13
Room and Board Costs, 14
Russian Programs and Courses, 102, 105

SAT Score Requirements, Admission, 9
Safety Programs, 76
Sanitarian Sequence, 65
Satisfactory Progress Policy, 15
SCERB, 19
Scholarships, 17
Second Bachelor's Degree, 28
Secondary Physical Education Sequence, 57
Secretarial Education Sequence, 137
Semester Plan Explanation, 42
Senior College Hours, 27
Senior Evaluation, 27
Sequence, Description of, 41
SIGI (System of Interactive Guidance Information), 18
Social Sciences Programs, 83
Social Security Benefits, 16
Social Work, Preparation, 35
Social Work Program and Courses, 126, 129
Sociology Programs and Courses, 126
Sororities, 21
Spanish Programs and Courses, 102, 106
Special Admissions, 10
Special Application Sequence, (ACS), 52
Special Education Programs, Admission, 150
Special Fees, 13
Specialized Educational Development Programs and Courses, 150
Speech and Hearing Clinic, 32
Speech Communication Programs, 90
Speech Pathology and Audiology Programs and Courses, 129
State Scholarships and Grants, 17
Student Affairs Office, 18
Student Association, 20
Student Classifications, 9
Student Clubs and Organizations, 20
Student Counseling Center, 19
Student Judicial Office, SCERB, 19
Student Life and Programs, 19
Study Abroad, 31
Summer Sessions, 8
Supplemental Educational Opportunity Grants (SEOG), 15, 16
Systems Design Sequence, 52

Talent Program, Admissions, 10
Teacher Certification, 37, 151
Teacher Education Program Requirements, 153
Teaching English to Speakers of Other Languages (TESOL) Program, 98
Teaching, Preparation, 35
Technical Systems Sequence, 52
Technology of Industry Programs, 74
Tenant Union, 20
Tests, Admission, 9
Theatre Production Sequence, 170
Theatre Programs and Courses, 170
Therapeutic Recreation Sequence, 58
Title IX, 1
Traffic and Safety Education Sequence, 76
Transcript Fee, 13
Transfer Students, 9, 10
Tuition and Fees, 13
TV 10 News, 21

Unclassified Students, 9, 10, 16
Undergraduate Teaching Assistants, 32
University Scholarships, 17
University Studies Courses and Groups, 37
University Studies, Individual Program, 40
University-Wide Programs and Courses, 41, 44
Upper Division Honors, 30

Veteran's G.I. Bill, 16
Veteran's Services, 20
Veterinary Medicine, Preparation, 34
Vidette, 21
Visually Handicapped Sequence, 151
Vocational Rehabilitation Education Assistance, 16
Voice Performance Sequence, 166
Voter Registration, 20

Withdrawal Policies Procedures, 24
Women's Studies, 44
Writing Center, 32
Writing Program, 98
WZND, 21

Yearbook and New Student Record, 20
Yearly Expense Estimate, 14

The Community

